GM UPFITTER INTEGRATION

BODY BUILDER MANUAL

FOR

2015 CHEVROLET EXPRESS/GMC SAVANA

ELECTRICAL SECTION

GM UPFITTER INTEGRATION

Note to User:
As part of our mission to provide an up-to-date website that includes detailed Body Builder Manuals, Technical Bulletins, and Best Practice Manuals, we are now using sectional excerpts directly from the General Motors Service Information publications for our Electrical Body Builder Manuals.

You will note that the section numbers are non-sequential as we have provided only those that are believed to be the most pertinent to the Upfitter community and best suited to their needs.*

This new usage of the Service Information provides the opportunity for us to remain consistent with the changes that take place throughout the model year and to provide you updated information in a more timely fashion.

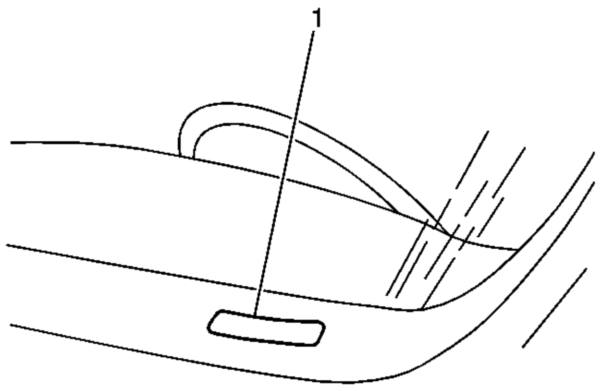
**** If you would like to have access to all of the electrical Service Information, please apply for a subscription from ACDelco at http://acdelcotechconnect.com/html/tss_tech_esi.jsp***

General Information

General Information

Introduction

Vehicle, Engine and Transmission ID and VIN Location, Derivative and Usage



The VIN plate is the legal identifier of the vehicle. The VIN plate (1) is located on the upper left corner of the instrument panel (I/P) and can be seen through the windshield from the outside of the vehicle:

Vehicle Identification Number (VIN) System

Position	Definition	Character	Description
1	Region of Build	1	United States
2	Manufacturer	G	General Motors
3	Vehicle Brand/Type	A	Chevrolet Bus
		B	Chevrolet Incomplete Truck
		C	Chevrolet Truck
		D	GMC Incomplete Truck
		J	GMC Bus
		T	GMC Truck
4	GVWR/Brake System/Body Style	W	8,001–9,000 lbs/Hydraulic/Cargo or Passenger Van
		Y	8,001–9,000 lbs/Hydraulic/Commercial Van or RV Cutaway
		Z	9,001–10,000 lbs/Hydraulic/Cargo or Passenger Van
		0	9,001–10,000 lbs/Hydraulic/Commercial Van or RV Cutaway
		3	10,001–14,000 lbs/Hydraulic/Commercial Van or RV Cutaway
		6	14,001–16,000 lbs/Hydraulic/Commercial Van or RV Cutaway
5–6	Chassis/Series	G/F	4x2, Chevrolet Express 2500 Cargo
		G/G	4x2, Chevrolet Express 2500 Cargo EXT

G/H	4x2, Chevrolet Express 2500 Paratransit
G/J	4x2, Chevrolet Express 2500 Paratransit EXT
G/K	4x2, Chevrolet Express 2500 Conversion 3LT
G/L	4x2, Chevrolet Express 2500 Conversion EXT 3LT
G/P	4x2, Chevrolet Express 2500 Passenger LS
G/R	4x2, Chevrolet Express 2500 Passenger LT
G/T	4x2, Chevrolet Express 3500 Cargo
G/U	4x2, Chevrolet Express 3500 Cargo EXT
G/V	4x2, Chevrolet Express 3500 Paratransit
G/W	4x2, Chevrolet Express 3500 Paratransit EXT
G/X	4x2, Chevrolet Express 3500 Passenger LS
G/Y	4x2, Chevrolet Express 3500 Passenger LT
G/Z	4x2, Chevrolet Express 3500 Passenger EXT LS
G/1	4x2, Chevrolet Express 3500 Passenger EXT LT
G/2	4x2, Chevrolet Express 3500 Cutaway 139" Wheelbase
G/3	4x2, Chevrolet Express 3500 Cutaway 159" Wheelbase
G/4	4x2, Chevrolet Express 3500 Cutaway 177" Wheelbase
G/5	4x2, Chevrolet Express 4500 Cutaway 159" Wheelbase
G/6	4x2, Chevrolet Express 4500 Cutaway 177" Wheelbase
G/9	4x2, Chevrolet Express (Export − Non US, Non Canada)
7/F	4x2, GMC Savana 2500 Cargo
7/G	4x2, GMC Savana 2500 Cargo EXT
7/H	4x2, GMC Savana 2500 Paratransit
7/J	4x2, GMC Savana 2500 Paratransit EXT
7/K	4x2, GMC Savana 2500 Conversion 3LT
7/L	4x2, GMC Savana 2500 Conversion EXT 3LT
7/P	4x2, GMC Savana 2500 Passenger LS
7/R	4x2, GMC Savana 2500 Passenger LT
7/T	4x2, GMC Savana 3500 Cargo
7/U	4x2, GMC Savana 3500 Cargo EXT
7/V	4x2, GMC Savana 3500 Paratransit

		7/W	4x2, GMC Savana 3500 Paratransit EXT
		7/X	4x2, GMC Savana 3500 Passenger LS
		7/Y	4x2, GMC Savana 3500 Passenger LT
		7/Z	4x2, GMC Savana 3500 Passenger EXT LS
		7/1	4x2, GMC Savana 3500 Passenger EXT LT
		7/2	4x2, GMC Savana 3500 Cutaway 139" Wheelbase
		7/3	4x2, GMC Savana 3500 Cutaway 159" Wheelbase
		7/4	4x2, GMC Savana 3500 Cutaway 177" Wheelbase
		7/5	4x2, GMC Savana 4500 Cutaway 159" Wheelbase
		7/6	4x2, GMC Savana 4500 Cutaway 177" Wheelbase
		7/9	4x2, GMC Savana (Export − Non US, Non Canada)
7	Restraint System	B	AJ3 − Active Manual Belts, Airbag − Driver only − Front
		C	AK5 − Active Manual Belts, Airbag – Driver and Passenger – Front (1st row)
		F	AK5 & ASF − Active Manual Belts, Airbags – Driver and Passenger – Front (1st row) and Roof Side (All seating rows for vehicles with 3 or fewer seating rows; 1st, 2nd and 3rd row for vehicles with 4 or more seating rows)
8	Engine Type	B	RPO LC8, Flexible Fuel, (CNG/LPG), 8 Cylinder, V8, 6.0L, SFI, GE N1, GMNA
		F	RPO L20, Flexible Fuel, (Gas/Ethanol), 8 Cylinder, 4.8L, SFI, IRON
		G	RPO L96, Flexible Fuel, Gas/ALC, 8 Cylinder, 6.0L SFI, Iron, GM
		L	RPO LGH, Diesel, 8 Cylinder, 6.6L, DI, V8, Turbo, Duramax
9	Check Digit	—	Check Digit
10	Model Year	F	2015
11	Plant Location	1	Wentzville, MO
12–17	Plant Sequence Number	—	Plant Sequence Number

All engines and transmissions are stamped or laser etched with a partial VIN, which was derived from the complete VIN. A VIN derivative contains the following 9 positions:

VIN Derivative

Position	Definition	Character	Description
1	GM Division Identifier	G	General Motors
2	Model Year	F	2015
3	Assembly Plant	1	Wentzville MO
4–9	Plant Sequence Number	100,001	Plant Sequence Number

4–9	Plant Sequence Number	900,001	Pre-Assigned

4.8L RPO L20, and 6.0L RPO L96 Engine ID and VIN Derivative Location

Refer to CELL Link Error - Link target cell (cell ID 144252) is invalid for this publication..

6.6L RPO LGH Engine ID and VIN Derivative Location

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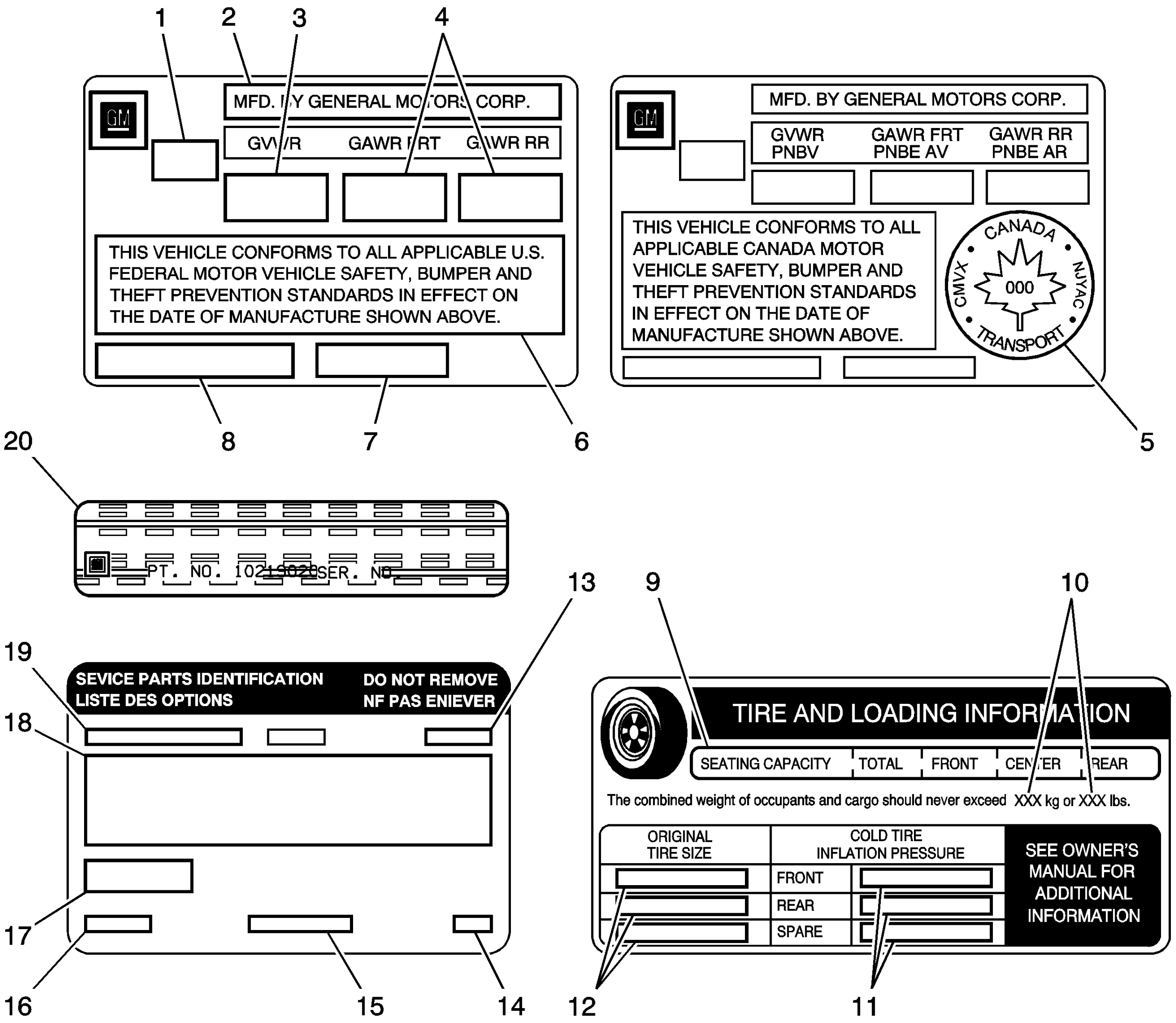
6L90 Transmission ID and VIN Derivative Location

Refer to CELL Link Error - Link target cell (cell ID 135940) is invalid for this publication..

Vehicle Certification, Tire Placard, Anti-Theft, and Service Parts ID Label


1
2
3
4
MFD. BY GENERAL MOTORS CORP.
GVWR
GAWR FRT
GAWR RR
THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY, BUMPER AND THEFT PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.
MFD. BY GENERAL MOTORS CORP.
GVWR PNBV
GAWR FRT PNBE AV
GAWR RR PNBE AR
THIS VEHICLE CONFORMS TO ALL APPLICABLE CANADA MOTOR VEHICLE SAFETY, BUMPER AND THEFT PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.
CANADA
CMVX
NJYAC
000
TRANSPORT
20
8
7
6
5
PT. NO. 10219028 SER. NO
13
9
10
19
SEVICE PARTS IDENTIFICATION
LISTE DES OPTIONS
DO NOT REMOVE
NF PAS ENIEVER
18
TIRE AND LOADING INFORMATION
SEATING CAPACITY
TOTAL
FRONT
CENTER
REAR
The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs.
ORIGINAL TIRE SIZE
COLD TIRE INFLATION PRESSURE
FRONT
REAR
SPARE
SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION
17
16
15
14
12
11

Vehicle Certification, Tire Placard, Anti-Theft, and Service Parts ID Label

Callout	Description
Vehicle Certification Label The vehicle certification label is located on the driver door and displays the following assessments: • Gross Vehicle Weight Rating (GVWR) • Gross Axle Weight Rating (GAWR), front and rear • The gross vehicle weight (GVW) is the weight of the vehicle and everything it carries. The GVW must not exceed the GVWR. Include the following items when figuring the GVW: – The base vehicle weight (factory weight) – The weight of all vehicles accessories – The weight of the driver and the passengers – The weight of the cargo	
1	Name of Manufacturer
2	Gross Vehicle Weight Rating
3	Gross Axle Weight Rating (FRONT, REAR)
4	Canadian Safety Mark (w/RPO Z49)

5	Certification Statement
6	Vehicle Class Type (Pass Car, etc.)
7	Vehicle Identification Number
8	Date of Manufacture (Mo/Yr)
Tire Placard The tire placard label is located on the driver door and displays the following assessments:	
9	Specified Occupant Seating Positions
10	Maximum Vehicle Capacity Weight
11	Tire Pressure, Front, Rear, and Spare (Cold)
12	Original Equipment Tires Size
Service Parts ID Label The vehicle service parts identification label is located in the rear compartment under the spare tire cover. The label is use to help identify the vehicle original parts and options.	
13	Vehicle Identification Number
14	Engineering Model Number (Vehicle Division, Line and Body Style)
15	Interior Trim Level and Decor
16	Exterior (Paint Color) WA Number
17	Paint Technology
18	Special Order Paint Colors and Numbers
19	Vehicle Option Content
Anti-Theft Label	
20	The Federal law requires that General Motors label certain body parts on this vehicle with the VIN. The purpose of the law is to reduce the number of motor vehicle thefts by helping in the tracing and recovery of parts from stolen vehicles. Labels are permanently affixed to an interior surface of the part. The label on the replacement part contains the letter R, the manufacture's logo, and the DOT symbol. The anti-theft label must be covered before any painting, and rust-proofing procedures, and uncovered after the procedures. Failure to follow the precautionary steps may result in liability for violation of the Federal Vehicle Theft Prevention Standard and possible suspicion to the owner that the part was stolen.

RPO Code List

The production/process codes provide the description of the regular production options (RPOs). The RPO list is printed on the Service Parts Identification Label.

RPO Code List

RPO	Description
01U	PRIMARY COLOR – EXTERIOR, SPECIAL (02)
25U	PRIMARY COLOR – EXTERIOR, DARK MING BLUE (02) 722J
40P	WHEEL COLOR – WHITE (91)
52G	TRIM COMBINATION – CLOTH, MED NEUTRAL II (G) (00)
52I	INTERIOR TRIM – MED NEUTRAL II (I) (96)
52W	TRIM COMBINATION – VINYL, MED NEUTRAL II (W) (00)
5AZ	ACCESSORY – SAFETY KIT – UNIVERSAL
5Y3	ACCESSORY – TOW BALL – TRAILER HITCH
86U	PRIMARY COLOR – EXTERIOR, WHEATLAND YELLOW (02) 253A
93G	TRIM COMBINATION – CLOTH, MED DK PEWTER II (G) (03) (GMT610 - "G" VAN)
93I	INTERIOR TRIM – MED DK PEWTER II (03) (GMT610 - "G" VAN)
93W	TRIM COMBINATION – VINYL, MED DK PEWTER II (W) (03) (GMT610 - "G" VAN)
9N2	GVW RATING – 10,050 LBS
A07	WINDOW – BODY (DO NOT USE AFTER M.Y. 2011)
A08	WINDOW – BODY, RH (DO NOT USE AFTER M.Y. 2011)
A12	WINDOW RR – DR, STA
A13	WINDOW SIDE DR – RR, STA
A17	WINDOW SIDE BODY – SWING OUT, LH
A18	WINDOW RR – DR, SWING OUT
A19	WINDOW SIDE DR – RR, SWING OUT
A31	WINDOW – POWER OPERATED, ALL DOORS (DO NOT USE ON NEW/MAJOR PROGRAMS)
ACO	IDENTIFICATION – ACCESSORY CATALOG OFFERING

AG1	ADJUSTER FRT ST – POWER, MULTI-DIRECTIONAL, DRIVER
AG2	ADJUSTER PASS ST – POWER, MULTI-DIRECTIONAL
AJ1	WINDOW TINTED – DEEP, ALL EXCEPT W/S AND DRS (DO NOT USE AFTER M.Y. 2011)
AJ3	RESTRAINT SYSTEM – SEAT, INFLATABLE, DRIVER, FRT
AK5	RESTRAINT SYSTEM – SEAT, INFLATABLE, DRIVER AND PASS FRT
ANC	SALES PACKAGE – SHUTTLE BUS
AR7	SEAT – FRT BKT, STANDARD
AS5	SEAT – FRT BKT, DELUXE,
ASF	RESTRAINT – ROOF SIDE, LH AND RH, INFLATABLE
AT8	RESTRAINT PROVISIONS – CHILD, RR SEAT, RR FACING
ATG	LOCK CONTROL, ENTRY – REMOTE ENTRY, STANDARD RANGE
AU3	LOCK CONTROL – SIDE DR, ELEC
AXK	VEHICLE TYPE – TRUCK
AXW	VEHICLE TYPE – BUS – (NOT SCHOOL BUS)
B30	COVERING FLOOR – CARPET
B31	COVERING FLOOR – VINYL, FRT, FULL WIDTH
B32	COVERING FRT – FLOOR MATS, AUX
B33	COVERING REAR – FLOOR MATS, AUX
B38	COVERING FLOOR – VINYL, FRT AND RR, FULL WIDTH
B3D	SALES PACKAGE – SCHOOL BUS
B46	TRIM EQUIPMENT – SPECIAL ORDER
BA0	ORNAMENTATION – EXTR, DOOR, NAMEPLATE
BA3	COMPARTMENT – STOWAGE, I/P LOWER EXTENSION DELUXE
BAG	PARTS PKG – EXPORT
BG5	COVERING FLOOR – (NONE)

BNC	PARTS PKG – BODY MOUNT CUSHIONS
BTV	REMOTE START – ENGINE
BUE	KIT – EXHAUST DIESEL
C36	HEATER – AUXILIARY
C42	HVAC SYSTEM – HEATER, OUTSIDE AIR, DELUXE
C49	DEFOGGER – RR WINDOW, ELECTRIC
C4K	GVW RATING – 9,925 LBS
C4M	GVW RATING – 9,900 LBS/4,500 KG
C60	HVAC SYSTEM – AIR CONDITIONER FRT, MAN CONTROLS
C69	HVAC SYSTEM RR – AIR CONDITIONER
C6P	GVW RATING – 8,600 LBS/3,900 KG
C6Y	GVW RATING – 9,600 LBS
C7I	GVW RATING – 14,200 LBS.
C7N	GVW RATING – 12,300 LBS
C7Q	GVW RATING – 8,800 LBS/4,000 KG
C8V	GVW RATING – 13,980 LBS
C99	SWITCH – INFL RST I/P MDL MAN SUPPRESSION
CEI	CERTIFICATION – EMISSION, GEOGRAPHICALLY RESTRICTED REGION FOR VEHICLES OVER 14,000 LBS GVW
CEJ	CERTIFICATION – EMISSION, FEDERAL FOR VEHICLES OVER 14,000 LBS GVW
CEK	EMISSION OVERRIDE – EMISSION OVERRIDE CALIFORNIA SYSTEM FOR VEHICLES OVER 14,000 LBS GVW
CEM	EMISSION OVERRIDE – EMISSION OVERRIDE FEDERAL SYSTEM FOR VEHICLES OVER 14,000 LBS GVW
CU7	COUNTRY – KUWAIT
CU8	COUNTRY – SAUDI ARABIA
CV3	COUNTRY – MEXICO
CV4	COUNTRY – ISRAEL
CW2	COUNTRY – GULF AREAS (BAHRAIN, KUWAIT, OMAN, QATAR, SAUDI ARABIA, UAE)

CW9	COUNTRY – MISCELLANEOUS
D28	MIRROR O/S – (NONE)
D31	MIRROR I/S R/V – TILT
DAA	SUNSHADE – VINYL
DE2	MIRROR O/S – LH AND RH, MANUAL CONTROL, FOLDING, COLOR
DE5	MIRROR O/S – LH AND RH, REMOTE CONTROL, ELECTRIC, HEATED, FOLDING, COLOR.
DH6	MIRROR I/S FRT VAN – LH AND RH, SUNSHADE, ILLUM
DHC	MIRROR O/S – LH AND RH, MANUAL CONTROL, AUX WFOV, COLOR
DNS	EQUIPMENT – SUPPLIER INSTALLED
DT4	ASHTRAY – CIGARETTE LIGHTER
E24	DOOR SIDE – REAR, HINGED
E26	DOOR SIDE REAR LH – HINGED
E3T	HANDLE – I/S, DOOR RELEASE
E48	COVER – RADIATOR GRILLE OPG – COLD CLIMATE
EF7	COUNTRY – UNITED STATES OF AMERICA (USA)
ENC	HVAC PROVISIONS – AUXILLIARY HEATER PLUMBING AND WIRING
EVA	TEST – DVT, EVAP EMISSION REQUIREMENT
EXP	EXPORT
FE9	CERTIFICATION – EMISSION, FEDERAL
FHO	VEHICLE FUEL – GASOLINE E10
FHS	VEHICLE FUEL – GASOLINE E85
FHX	VEHICLE FUEL – DIESEL B20
FHZ	VEHICLE FUEL – DEDICATED CNG
G7C	PRIMARY COLOR – EXTERIOR, PULL ME OVER RED SOLID (130X)
G7J	PRIMARY COLOR – EXTERIOR, UNRIPENED GREEN MET (136X)
G7K	EQUIPMENT – ANTENNA, CABLE AND GROUNDPLATE

G80	AXLE POSITRACTION – LIMITED SLIP
GAN	PRIMARY COLOR – EXTERIOR, SWITCHBLADE SILVER MET (G) 636R
GAZ	PRIMARY COLOR – EXTERIOR, SUMMIT WHITE (G) 8624
GBA	PRIMARY COLOR – EXTERIOR, BLACK (G) 8555
GBV	PRIMARY COLOR – EXTERIOR, CYBER GRAY MET (G) 637R
GH0	AXLE REAR – 3.54 RATIO
GT4	AXLE REAR – 3.73 RATIO
GT5	AXLE REAR – 4.10 RATIO
GU6	AXLE REAR – 3.42 RATIO
GWX	PRIMARY COLOR – EXTERIOR, SUBTERRANEAN MET (105V)
I15	ENGINEERING YEAR – 2015
JFF	GVW RATING – 10,100 LBS
JH6	BRAKE – HYD POWER, 4 WHL DISC.
JH9	BRAKE – HYD POWER, 4 WHL DISC, 14,200 LBS
JL4	CONTROL, – ACTIVE BRAKE
K05	HEATER ENG – BLOCK
K08	HEATER – AUXILIARY, FUEL FIRED
K34	CRUISE CONTROL – AUTOMATIC, ELECTRONIC
K50	FUEL – FITTING, LINE TAKE-OFF
K68	GENERATOR – 105 AMP
KC4	COOLING SYSTEM – ENG OIL
KD1	COOLING SYSTEM – TRANS, OIL
KD9	GENERATOR – 145 AMP, DUAL
KG3	GENERATOR – 145 AMP
KI4	RECEPTACLE – ELECTRICAL, ACCESSORY 110 VOLT
KO7	VEHICLE FUEL – DEDICATED LIQUEFIED PETROLEUM GAS, LIQUID
KUP	THROTTLE CONTROL – ELECTRONIC

KW1	GENERATOR – 160 AMP
L20	ENGINE – GAS, 8 CYL, 4.8L, SFI, E85 MAX, IRON, GM
L96	ENGINE – GAS, 8 CYL, 6.0L, SFI, E85 MAX, IRON, GM
LC8	ENGINE – LPG/CNG, 8 CYL, V8, 6.0L, SFI, GEN 1, GMNA
LGH	ENGINE – DIESEL, 8 CYL, 6.6L, DI, V8, TURBO, DURAMAX
MTF	PROVISIONS – FIRE EXTINGUISHER MOUNTING
MYD	TRANSMISSION – AUTO 6 SPD, HMD, 6L90
N12	EXHAUST SYSTEM – REAR EXIT
N33	STEERING COLUMN – TILT TYPE
NB8	EMISSION OVERRIDE – CALIFORNIA SYSTEM
NC7	EMISSION OVERRIDE – FEDERAL SYSTEM
NC8	EMISSION SYSTEM – CALIFORNIA, ULEV (NOTE: NOT TO BE USED AFTER 2007MDL YR FOR DOMESTIC NAO PASS CAR AND LT DUTY TRUCKS)
NCF	LOCK – CHILD SECURITY FEATURE – NONE
NE1	CERTIFICATION – EMISSION, GEOGRAPHICALLY RESTRICTED REGISTRATION FOR VEHICLES UP TO 14,000 LBS GVW (USE 2003 MDL YR
NE7	FUEL TANK – 216L, 57 GAL
NP5	STEERING WHEEL – LEATHER WRAPPED
NPL	PLATE – NAME – NONE
NT7	EMISSION SYSTEM – FEDERAL, TIER 2
NU4	EMISSION SYSTEM – CALIFORNIA LEV2 PLUS
P03	COVER, WHEEL – VAR 3
PNC	PANEL – TRIM, FRT DOORS AND SI RR DOOR(S) AND RR DOORS
PPC	PANEL – TRIM, RR DOORS
PRP	SALES PACKAGE – COMMERCIAL TRADESMAN
QB5	WHEEL – 16 X 6.5, J, STEEL (DO NOT USE AFTER M.Y. 2011)

QT4	WHEEL – 16 X 6.5, STEEL H.D. (DO NOT USE AFTER M.Y. 2011)
R04	WHEEL CONFIGURATION – RR, SINGLE (DO NOT USE AFTER M.Y. 2011)
R05	WHEEL CONFIGURATION – RR, DUAL (DO NOT USE AFTER M.Y. 2011)
R25	APPEARANCE PACKAGE – EXTERIOR, CHROME GRILLE AND PAINTED BUMPER
R26	APPEARANCE PACKAGE – EXTERIOR, CHROME GRILLE AND FRONT BUMPER
RVG	ACCESSORY – ADAPTER – TRAILER HARNESS
RVX	ACCESSORY – BALL MOUNT – TRAILER HITCH
RYS	ACCESSORY – FIRE EXTINGUISHER
RYT	ACCESSORY – FIRST AID KIT
RYY	ACCESSORY – FLOOR MATS – MOLDED VINYL
RZW	ACCESSORY – HARNESS – TRAILER HITCH
S08	ACCESSORY – HIGHWAY SAFETY KIT
S09	ACCESSORY – HITCH MOUNT ASSEMBLY
S40	ACCESSORY – LINER – TRUNK/CARGO AREA
S44	ACCESSORY – LOCKING PIN – TRAILER HITCH
S52	ACCESSORY – MOLDED HOOD PROTECTOR – SMOKED
S6N	ACCESSORY – RECEIVER COVER – TRAILER HITCH
S6Q	ACCESSORY – ROADSIDE ASSISTANCE PACKAGE
SAO	ACCESSORY – SMOKERS PACKAGE
SDD	ACCESSORY – TRAILER HITCH – FIXED
SDI	ACCESSORY – TRIANGLE – REFLECTIVE
SDS	ACCESSORY – WEATHER DEFLECTORS – SIDE WINDOW – SMOKED
SFE	ACCESSORY – WHEEL LOCKS
SFV	ACCESSORY – WIRELESS NETWORK INTERFACE MODULE

T74	CONTROL, HEADLAMPS – AUTOMATIC, DELAY
TBD	RADIO – BASE AM/FMMP3 W/O CD/USB
TBD	RADIO – UP-LEVEL,AM/FM/USBMP3/ W/O CD
TGA	LANGUAGE CONTROL – ENGLISH, FRENCH, SPANISH
TGG	LANGUAGE CONTROL – ENGLISH, ARABIC, FRENCH
TR9	LAMP GROUP
U05	HORN – DUAL
U19	SPEEDOMETER – INST, KILO AND MILES, KILO ODOMETER
U2J	DIGITAL AUDIO SYSTEM – S-BAND – NONE
U2K	DIGITAL AUDIO SYSTEM – S-BAND
U73	ANTENNA – FIXED, RADIO
U74	ANTENNA – RADIO – NONE
U80	DISPLAY – COMPASS
UA1	BATTERY – HIGH CAPACITY, WET (DO NOT USE AFTER 2011 ON NEW/MAJOR PROGS)
UA7	THEFT DETERENT SYS – EXPORT SPECIFIC, VAR #02 (DO NOT USE AFTER 2009 GLOBAL/NEW MAJOR PROGRAMS)
UC2	SPEEDOMETER – INST, KILO AND MILES, KILO ODOMETER, POSITIVE BIAS (DO NOT USE AFTER MY 2009 ON NEW/MAJOR PRGMS)
UD4	ALARM – VEHICLE SPEED, 120 K/H (DON'T USE AFTER 2010 ON NEW MAJORS – USE CTY COD AND/OR VCS FAM COD INSTEAD)
UD7	PARK ASSIST – REAR
UE0	COMMUNICATION SYSTEM – VEHICLE – NONE
UE1	COMMUNICATION SYSTEM – VEHICLE, ONSTAR
UF2	LAMP – CARGO
UF3	SWITCH – HIGH IDLE
UFA	DISPLAY – OUTSIDE TEMPERATURE
UFM	PARTS PKG – COMPLETE VEHICLE KIT, 3 TANK

UFP	PARTS PKG – COMPLETE VEHICLE KIT, 4 TANK
UJ1	INDICATOR – SYSTEM, BRAKE WARNING
UJM	TIRE PRESS INDICATOR – MANUAL LEARN
UL2	FREQUENCIES – EUROPEAN
UL5	RADIO – (NONE)
UL8	FREQUENCIES – SAUDI ARABIAN
UPF	WIRELESS INTERFACE – SHORT RANGE, VOICE REC
US8	RADIO – AM/FM STEREO, SEEK/SCAN, CD, AUTO TONE, CLOCK, ETR, MP3, RDS
USR	RECEPTACLE – USB
UVC	VISION – REAR VIEW, MONO
UXZ	RADIO – PROVISIONS FOR
UY7	WIRING HARNESS – TRUCK TRAILER, HD
UYS	RADIO – AM/FM STEREO, NAV, DVD-ROM, CAF, HDD, USB, RSA, RSE (GMNA VERSION)
V10	PROVISION OPTIONS – COLD WEATHER
V14	COOLER – OIL, TRANSMISSION, AUX
V22	GRILLE – RADIATOR, CHROME
V37	BUMPER – FRT AND RR, CHROME
V46	BUMPER FRT – CHROME
V4D	CALIBRATION – SEPARATED STOP/TURN SIGNAL CIRCUITS
V8D	VEHICLE STATEMENT – US
V8I	VEHICLE STATEMENT – ISRAEL
VBX	LANGUAGE LABEL – ARABIC
VC5	LABEL – SHIPPING, EXCEPT US, US POSSESSIONS, OR JAPAN
VG8	VEHICLE – LABEL, NOTICE TO BUYER
VH6	BUMPER FRT – BLACK
VJG	BUMPER RR – BLACK
VK3	LICENSE PLATE FRONT – FRT MOUNTING PKG
VK5	SEAT – TEMPORARY, FOR SHIPPING

VLL	ACCESSORY – CROSS RAILS – ROOF RACK – REMOVABLE
VLP	ACCESSORY – BULKHEAD DIVIDER
VLU	ACCESSORY – SECURITY SCREEN PACKAGE – REAR WINDOW W/O POP – OUT
VLV	ACCESSORY – LADDER RACK – ROOF MOUNTED – SWING OUT
VLW	ACCESSORY – BULKHEAD DIVIDER WITH DOOR
VP6	NOISE CONTROL
VPH	VEHICLE PREPARATION – OVERSEAS DELIVERY
VQK	ACCESSORY – SPLASH GUARDS – CUSTOM MOLDED
VR4	TRAILER HITCH – WEIGHT DISTRIBUTING PLATFORM
VR6	HOOK – TIE-DN SHPG
VT7	OWNERS MANUAL – ENGLISH LANGUAGE
VXT	VEHICLE TYPE – INCOMPLETE
VXW	ACCESSORY – ASSIST STEPS – MOLDED
W1Y	CONTROL – STEERING WHEEL, RADIO, REDUNDANT CONTROLS
WEN	PLANT CODE – WENTZVILLE, MO, USA
WMF	VIN MODEL YEAR – 2015
X88	MARKET BRAND – CHEVROLET
XHF	TIRE FRONT – LT225/75R16 E 115/112 S BL ALS
XIW	TIRE FRONT – LT245/75R16 E 120/116R BW OOR
XL7	FREQUENCIES RATING – 315 MHZ, LONG DISTANCE
XL8	FREQUENCIES RATING – 433 MHZ
XLP	TIRE FRONT – LT245/75R16 E 120/116 S BW ALS
Y3H	SALES PACKAGE – HANDICAPPED, MOBILITY, PARATRANSIT
YA2	DOOR SIDE – REAR, SLIDING
YB9	PAINT PROCESS – INTERIOR – NONE

YC6	PACKAGE, CONVENIENCE – DECOR LEVEL #6
YF1	SALES PACKAGE – CUTAWAY UPFITTER
YF2	SALES PACKAGE – AMBULANCE UPFITTER
YF5	CERTIFICATION – EMISSION, CALIFORNIA
YF7	SALES PACKAGE – RECREATIONAL VEHICLE, UPFITTER
YHF	TIRE REAR – LT225/75R16 E 115/112 S BL ALS
YIW	TIRE REAR – LT245/75R16 E 120/116R BW OOR
YLP	TIRE REAR – LT245/75R16 E 120/116 S BW ALS
YM8	IDENTIFICATION – LIMITED PERSONALIZATION OPTION (LPO)
Z49	COUNTRY – CANADA
Z82	TRAILER PROVISIONS – SPECIAL EQUIPMENT, H.D.
Z88	MARKET BRAND – GMC
ZHF	TIRE SPARE – LT225/75R16 E 115/112 S BL ALS
ZIW	TIRE SPARE – LT245/75R16 E 120/116R BW OOR
ZLP	TIRE SPARE – LT245/75R16 E 120/116 S BW ALS
ZP0	SEATING ARRANGEMENT – TEMPORARY DRIVER
ZP3	SEATING ARRANGEMENT – 15 PASS
ZP6	SEATING ARRANGEMENT – 5 PASS CARGO
ZQ2	SALES PACKAGE – DRIVER CONVENIENCE
ZQ3	SALES PACKAGE – DRIVER CONVENIENCE II
ZR7	APPEARANCE PACKAGE – GRILLE AND BUMPER CHROME
ZW2	WINDOW PKG – RR DRS
ZW3	WINDOW PKG – RR DRS, SIDE RR DR
ZW4	WINDOW PKG – RH SIDE, RR DRS

ZW6	WINDOW PKG – COMPLETE BODY
ZW9	BODY EQUIPMENT – BASE BODY OR CHASSIS
ZX1	SEATING ARRANGEMENT – DRIVER ONLY, HIGH BACK
ZX2	SEATING ARRANGEMENT – DRIVER AND PASS, HIGH BACK
ZX5	SEATING ARRANGEMENT – 12 PASS
ZX9	TIRE SPARE – W/WHEEL – NONE
ZY1	COLOR COMBINATION – SOLID

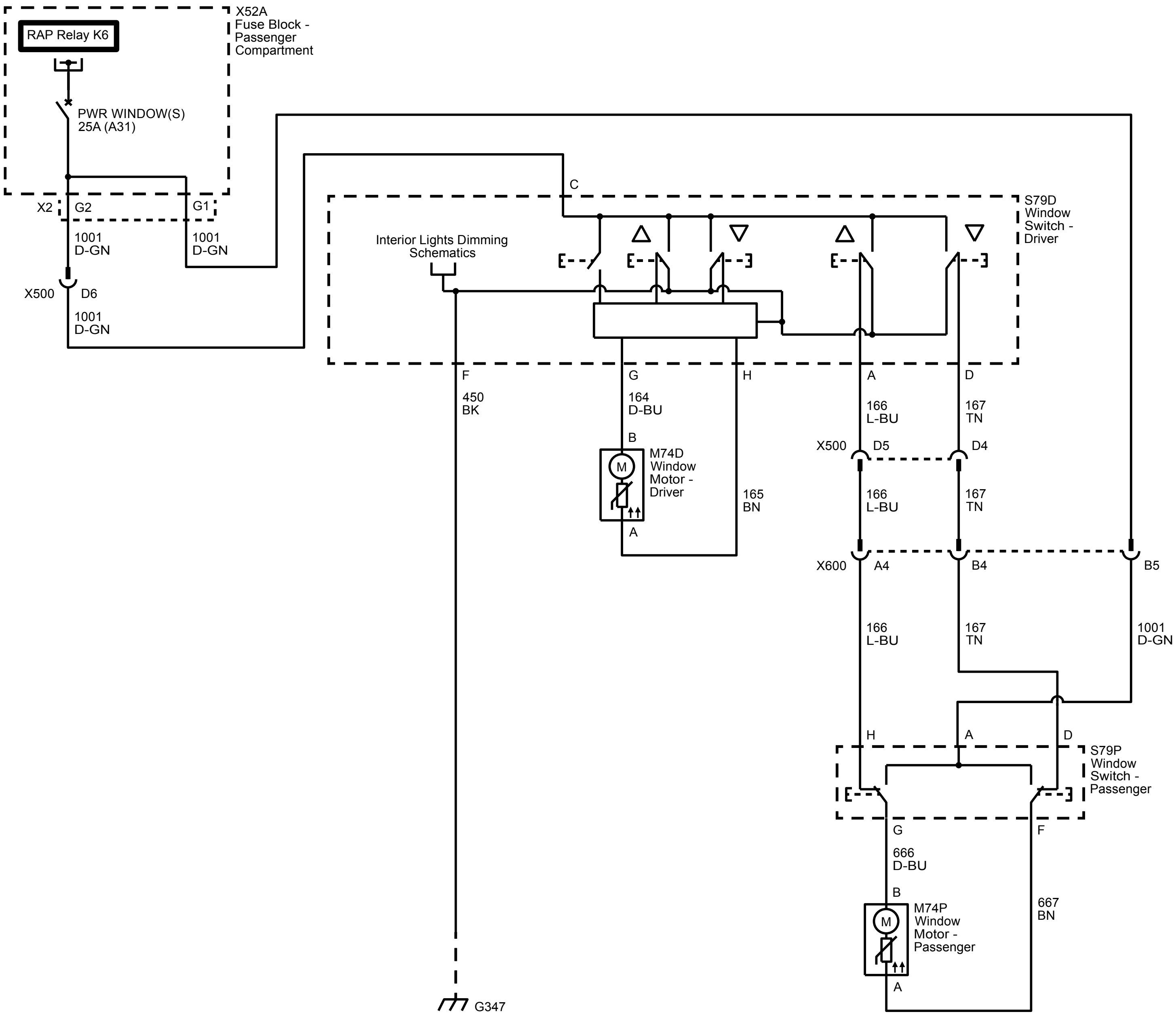
Body Systems

Fixed and Moveable Windows

Schematic and Routing Diagrams

Moveable Window Schematics

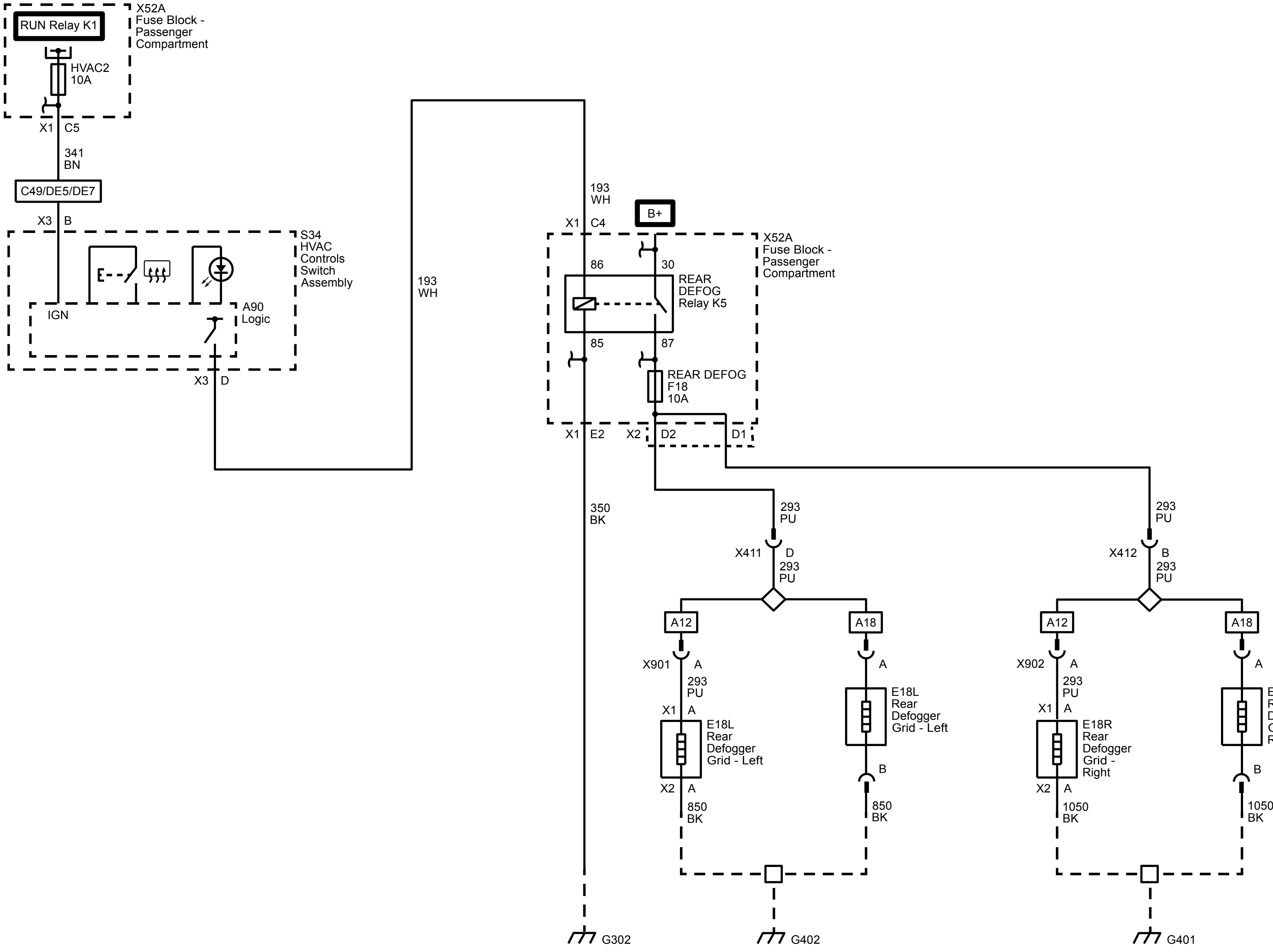
Moveable Windows



X52A
Fuse Block -
Passenger
Compartment
RAP Relay K6
PWR WINDOW(S)
25A (A31)
X2
G2
G1
1001
D-GN
1001
D-GN
X500
D6
1001
D-GN
C
S79D
Window
Switch -
Driver
Interior Lights Dimming
Schematics
F
450
BK
G
164
D-BU
H
A
166
L-BU
D
167
TN
B
M74D
Window
Motor -
Driver
M
A
165
BN
X500
D5
D4
166
L-BU
167
TN
X600
A4
B4
B5
166
L-BU
167
TN
1001
D-GN
H
A
D
S79P
Window
Switch -
Passenger
G
F
666
D-BU
B
M74P
Window
Motor -
Passenger
M
A
667
BN
G347

Defogger Schematics

Defogger


RUN Relay K1
X52A
Fuse Block - Passenger Compartment
HVAC2 10A
X1 C5
341 BN
C49/DE5/DE7
X3 B
S34 HVAC Controls Switch Assembly
IGN
A90 Logic
X3 D
193 WH
193 WH
X1 C4
B+
X52A
Fuse Block - Passenger Compartment
86
30
REAR DEFOG Relay K5
85
87
REAR DEFOG F18 10A
X1 E2
X2 D2
D1
350 BK
293 PU
X411 D
293 PU
293 PU
X412 B
293 PU
A12
A18
A12
A18
X901 A
293 PU
X1 A
E18L Rear Defogger Grid - Left
X2 A
850 BK
A
E18L Rear Defogger Grid - Left
B
850 BK
X902 A
293 PU
X1 A
E18R Rear Defogger Grid - Right
X2 A
1050 BK
A
E18R Rear Defogger Grid - Right
B
1050 BK
G302
G402
G401

Description and Operation

Power Windows Description and Operation

Power Window System Components

The power window system consists of the following components:

- LF power window master switch
- RF power window switch
- Reversible power window motors in each of the doors (circuit breaker protected)
- PWR WNDW 25A circuit breaker

Power Window System Controls

The power window system will operate anytime the ignition switch is in the ACCY or ON position or when RAP is activated.

The LF power window master switch can control the up and down functions of both the windows in the vehicle. The passenger door power window switch can only control the up and down functions of the passenger window.

Power Window Motor Operation

A permanent magnet motor operates each of the power side windows. Each motor raises or lowers the glass when the motor receives voltage. The direction the motor turns depends on the polarity of the supply voltage. The power window switches control the polarity of the supply voltage. A built-in circuit breaker protects each motor. The circuit breaker opens when the switch is depressed for a extended period of time under the following conditions:

- The window has an obstruction.
- The window is fully open or fully closed.

The circuit breaker will reset automatically as the circuit breaker cools.

Power Window Operation

The normally closed contacts of the switch are connected to ground and the center pole is connected to the accessory voltage circuit. By placing the left power window switch in the down position, voltage is applied to the power window motor left front down circuit and to the power window motor. The other side of the power window motor is connected to ground through the normally closed contacts of the left power window switch through the power window motor left front up circuit and drives the window down.

By placing the power window switch in the up position the polarity of the motor is reversed and the motor drives the window up.

Rear Window Defogger Description and Operation

Rear Window Defogger System Components

The rear window defogger system consists of the following components:

- HVAC control assembly
- Rear window defogger relay
- Rear window defogger grid

Rear Window Defogger Operation

When you turn the ignition to the ON position, battery positive voltage is supplied through the HTD MIR DEFOG fuse to the rear window defogger relay switched input. Ground is for the rear window defogger relay coil is provided by G302. Battery positive voltage and ignition voltage is supplied to the HVAC control assembly for rear window defogger operation. When the rear window defogger switch is depressed, the HVAC control assembly energizes the rear window defogger relay by supplying battery positive voltage to the rear window defogger relay coil. This allows battery positive voltage from the relay switched input through the switch contacts and out the relay switched output to the rear window defogger grids. The HVAC control assembly also illuminates the rear window defogger indicator upon this request. Ground for the left rear window defogger grid is provided by G401. Ground for the right rear window defogger grid is provided by G402.

When you turn ON the ignition and press the rear window defogger switch for the first time, the defogger cycle lasts 10 minutes. Further operation results in 5 minute defogger cycles. The defogger cycle resets to 10 minutes when you cycle the ignition to the OFF position and then back to the ON position.

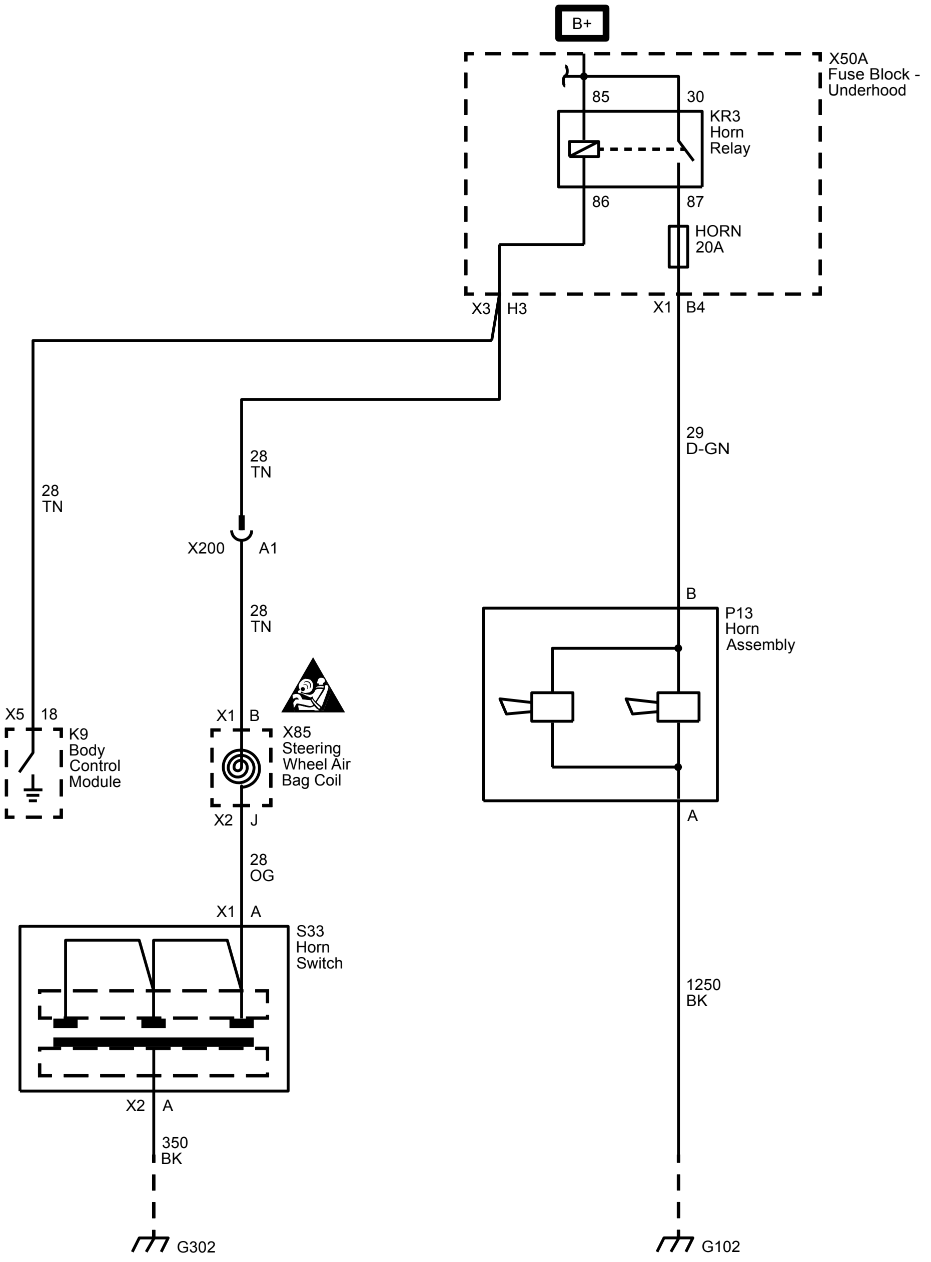
Body Systems

Horns

Schematic and Routing Diagrams

Horn Schematics

Horn Schematics


B+
X50A
Fuse Block -
Underhood
85
30
KR3
Horn
Relay
86
87
HORN
20A
X3
H3
X1
B4
28
TN
28
TN
29
D-GN
X200
A1
28
TN
B
P13
Horn
Assembly
X5
18
K9
Body
Control
Module
X1
B
X85
Steering
Wheel Air
Bag Coil
X2
J
A
28
OG
X1
A
S33
Horn
Switch
1250
BK
X2
A
350
BK
G302
G102

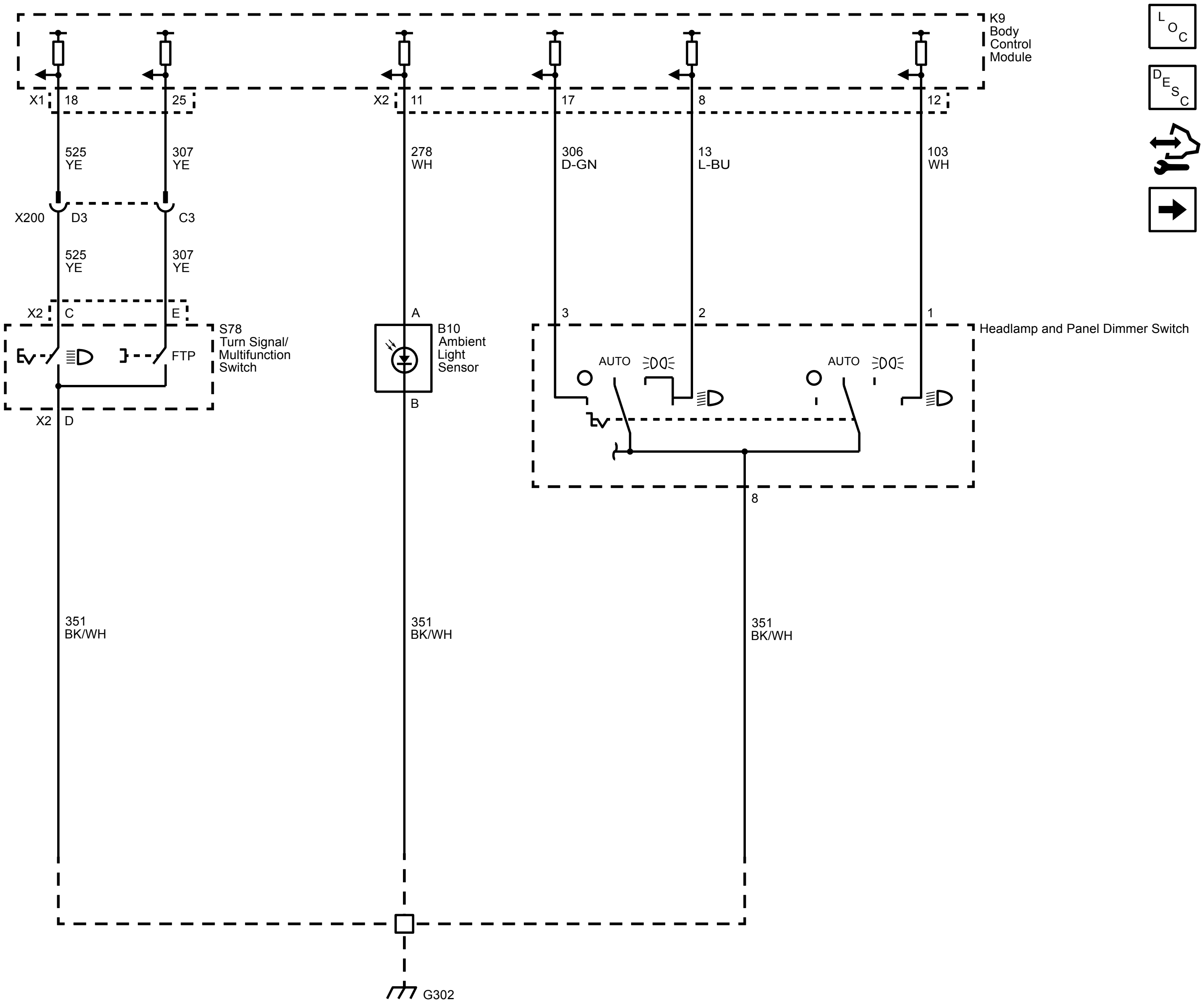
Body Systems

Lighting

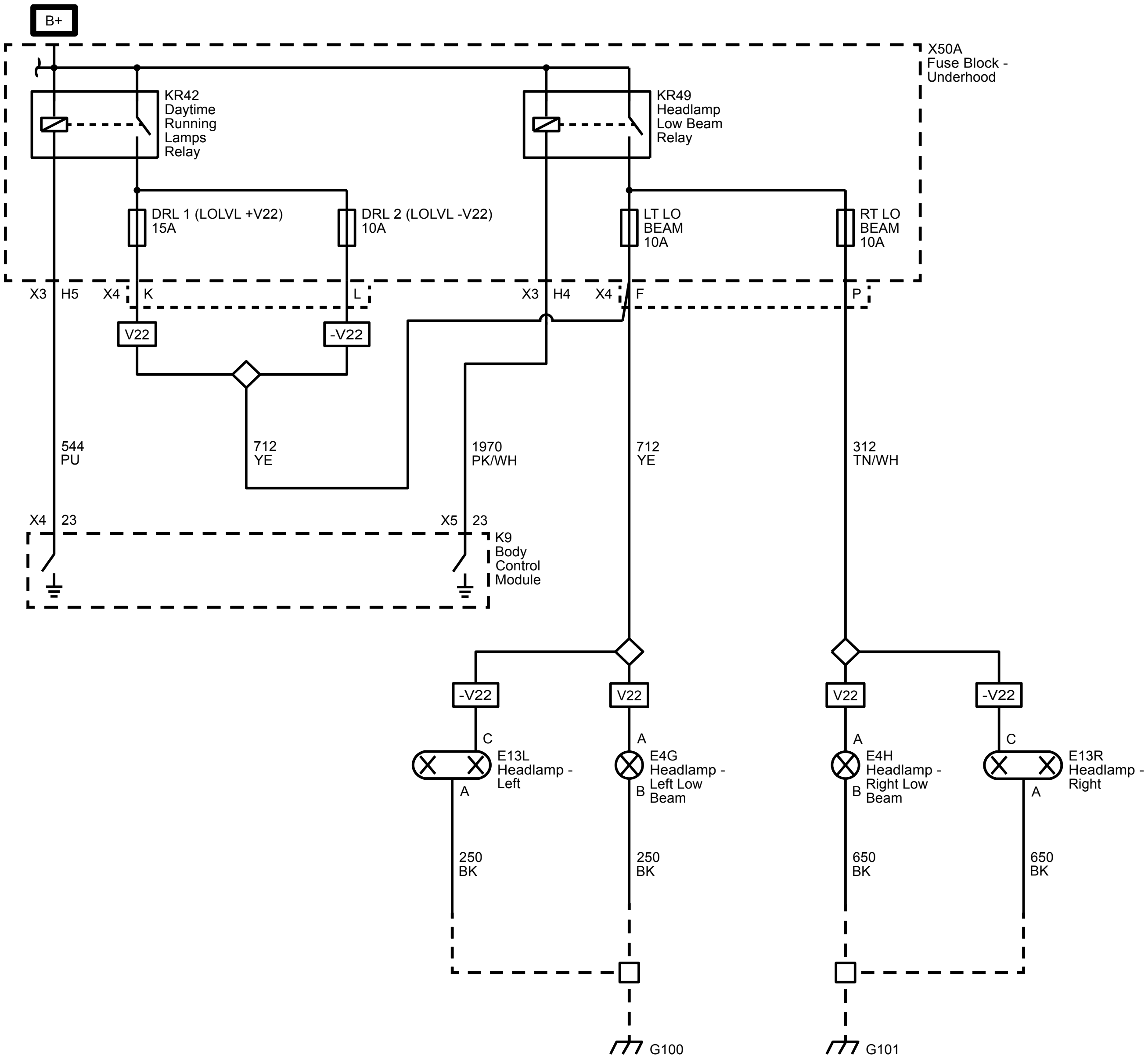
Schematic and Routing Diagrams

Headlights/Daytime Running Lights (DRL) Schematics

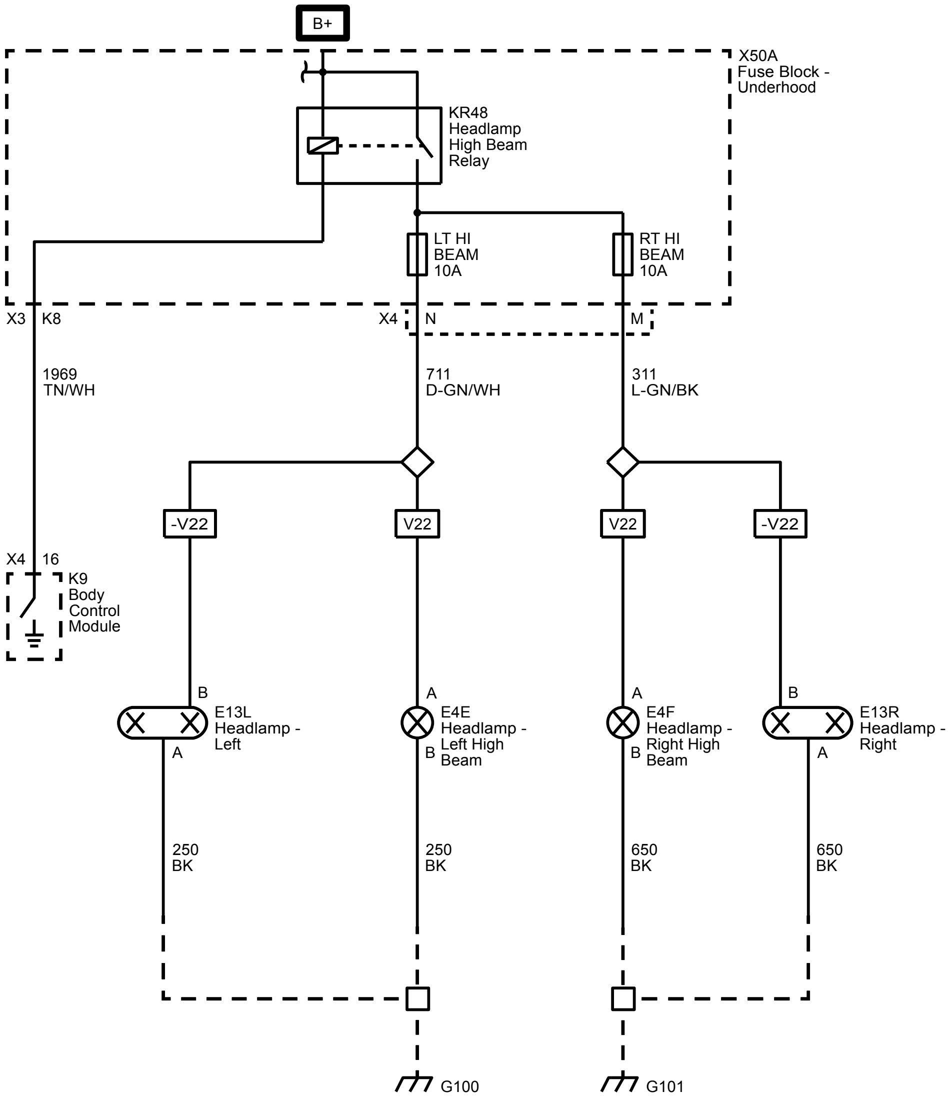
Headlamp and Daytime Running Lamp Controls


K9
Body
Control
Module
X1
18
25
X2
11
17
8
12
525
YE
307
YE
278
WH
306
D-GN
13
L-BU
103
WH
X200
D3
C3
525
YE
307
YE
X2
C
E
S78
Turn Signal/
Multifunction
Switch
FTP
X2
D
A
B10
Ambient
Light
Sensor
B
3
2
1
Headlamp and Panel Dimmer Switch
AUTO
AUTO
8
351
BK/WH
351
BK/WH
351
BK/WH
G302

Low Beam and Daytime Running Lights (DRL)

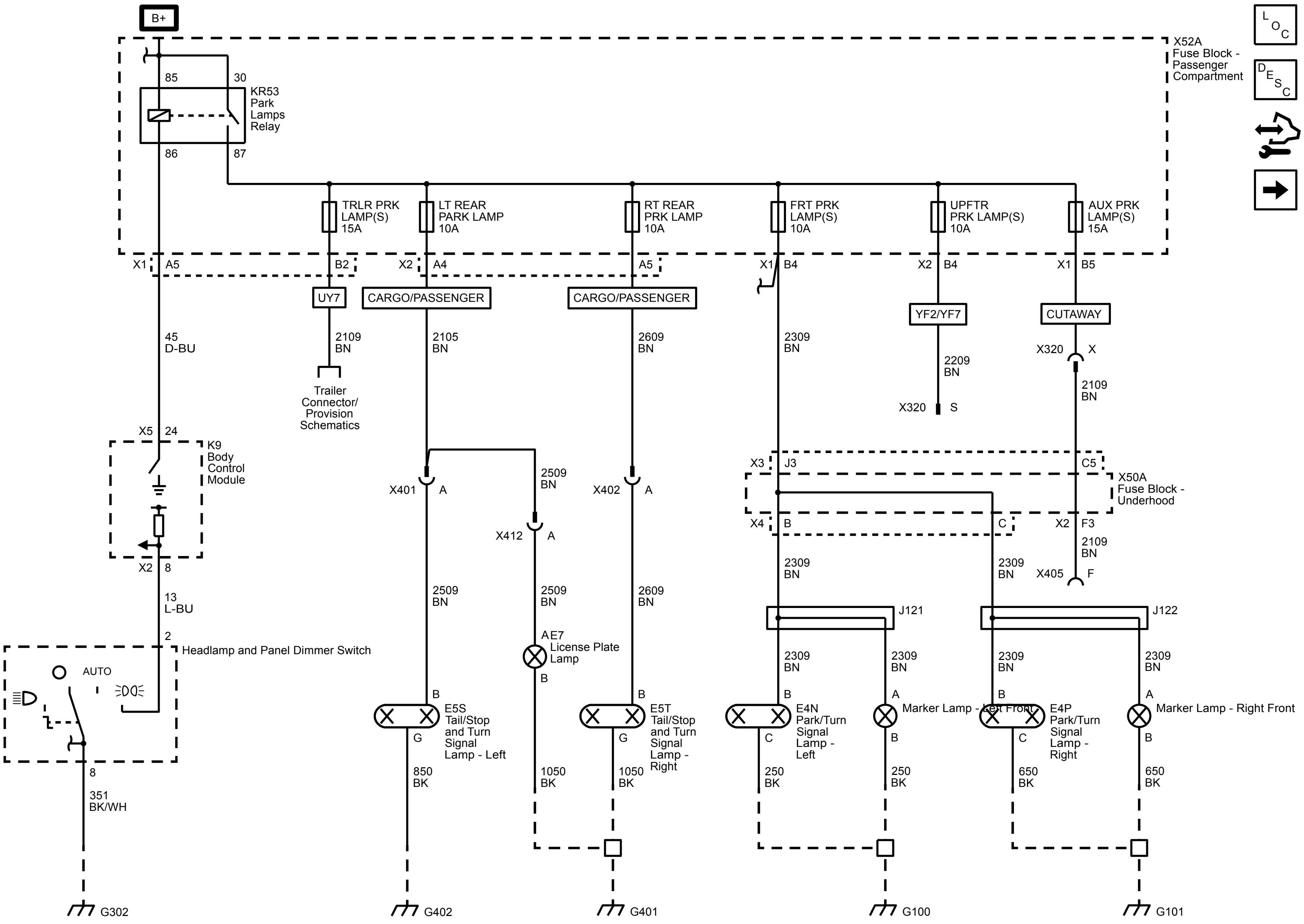

B+
X50A
Fuse Block -
Underhood
KR42
Daytime
Running
Lamps
Relay
KR49
Headlamp
Low Beam
Relay
DRL 1 (LOLVL +V22)
15A
DRL 2 (LOLVL -V22)
10A
LT LO
BEAM
10A
RT LO
BEAM
10A
X3
H5
X4
K
L
X3
H4
X4
F
P
V22
-V22
544
PU
712
YE
1970
PK/WH
712
YE
312
TN/WH
X4
23
X5
23
K9
Body
Control
Module
-V22
V22
V22
-V22
C
A
A
C
E13L
Headlamp -
Left
A
E4G
Headlamp -
Left Low
Beam
B
E4H
Headlamp -
Right Low
Beam
B
E13R
Headlamp -
Right
A
250
BK
250
BK
650
BK
650
BK
G100
G101

High Beams

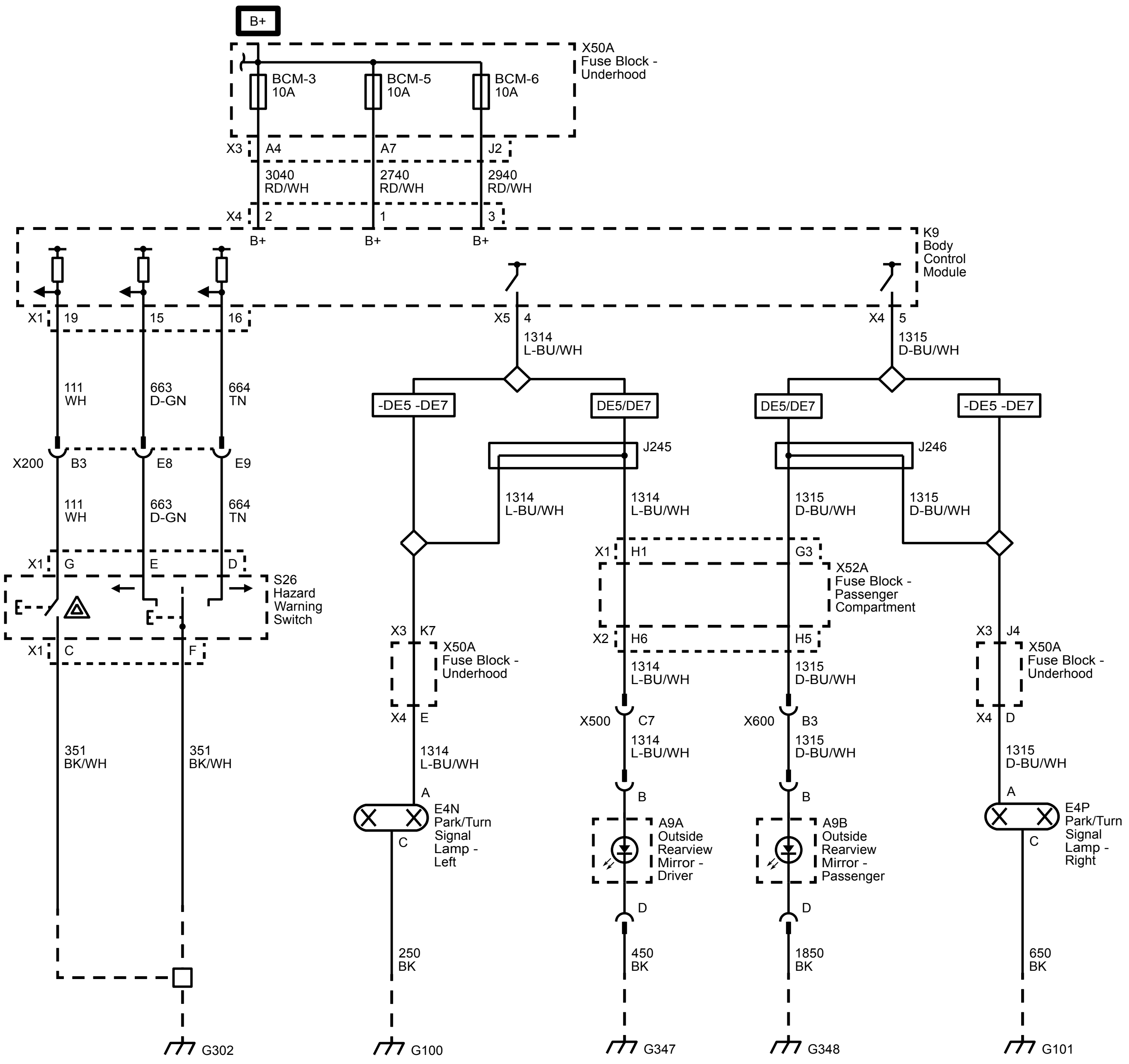

B+
X50A
Fuse Block -
Underhood
KR48
Headlamp
High Beam
Relay
LT HI
BEAM
10A
RT HI
BEAM
10A
X3
K8
X4
N
M
1969
TN/WH
711
D-GN/WH
311
L-GN/BK
-V22
V22
V22
-V22
X4
16
K9
Body
Control
Module
B
E13L
Headlamp -
Left
A
A
E4E
Headlamp -
Left High
Beam
B
A
E4F
Headlamp -
Right High
Beam
B
B
E13R
Headlamp -
Right
A
250
BK
250
BK
650
BK
650
BK
G100
G101

Exterior Lights Schematics

Park Lamp Controls and Park Lamps

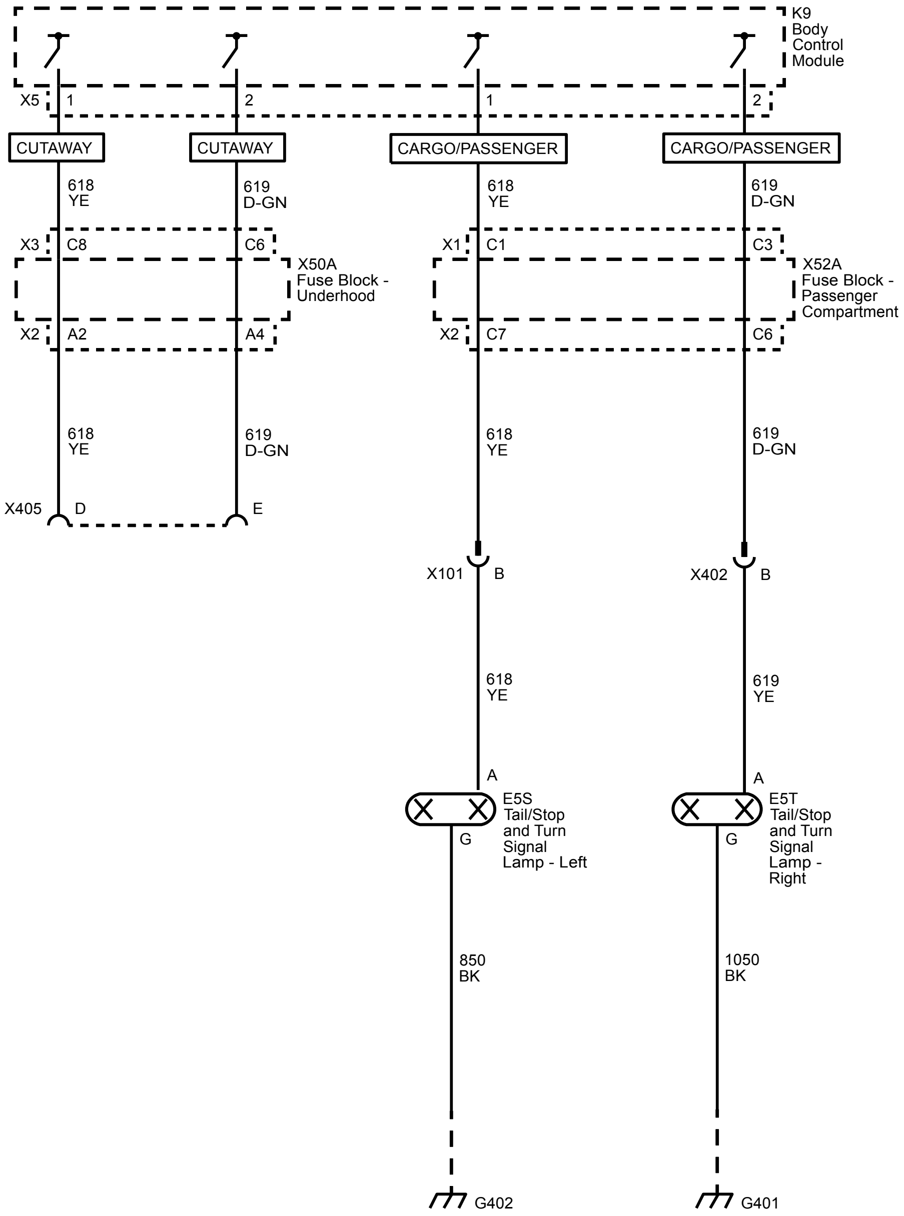

B+
X52A Fuse Block - Passenger Compartment
85
30
KR53 Park Lamps Relay
86
87
TRLR PRK LAMP(S) 15A
LT REAR PARK LAMP 10A
RT REAR PRK LAMP 10A
FRT PRK LAMP(S) 10A
UPFTR PRK LAMP(S) 10A
AUX PRK LAMP(S) 15A
X1 A5
B2
X2 A4
A5
X1 B4
X2 B4
X1 B5
UY7
CARGO/PASSENGER
CARGO/PASSENGER
YF2/YF7
CUTAWAY
45 D-BU
2109 BN
Trailer Connector/ Provision Schematics
2105 BN
2609 BN
2309 BN
2209 BN
X320 S
X320 X
2109 BN
X5 24
K9 Body Control Module
X2 8
13 L-BU
2
Headlamp and Panel Dimmer Switch
AUTO
8
351 BK/WH
G302
2509 BN
X401 A
X412 A
2509 BN
2509 BN
AE7 License Plate Lamp
B
1050 BK
X402 A
2609 BN
B
E5S Tail/Stop and Turn Signal Lamp - Left
G
850 BK
G402
B
E5T Tail/Stop and Turn Signal Lamp - Right
G
1050 BK
G401
X3 J3
C5
X50A Fuse Block - Underhood
X4 B
C
X2 F3
2109 BN
X405 F
2309 BN
2309 BN
J121
J122
2309 BN
2309 BN
2309 BN
2309 BN
B
E4N Park/Turn Signal Lamp - Left
C
250 BK
A
Marker Lamp - Left Front
B
250 BK
G100
B
E4P Park/Turn Signal Lamp - Right
C
650 BK
A
Marker Lamp - Right Front
B
650 BK
G101
L O C
D E S C

Turn Signal Controls and Front Turn Signal Lamps


B+
X50A
Fuse Block -
Underhood
BCM-3
10A
BCM-5
10A
BCM-6
10A
X3
A4
A7
J2
3040
RD/WH
2740
RD/WH
2940
RD/WH
X4
2
1
3
B+
B+
B+
K9
Body
Control
Module
X1
19
15
16
X5
4
X4
5
1314
L-BU/WH
1315
D-BU/WH
111
WH
663
D-GN
664
TN
-DE5 -DE7
DE5/DE7
DE5/DE7
-DE5 -DE7
J245
J246
X200
B3
E8
E9
111
WH
663
D-GN
664
TN
1314
L-BU/WH
1314
L-BU/WH
1315
D-BU/WH
1315
D-BU/WH
X1
G
E
D
S26
Hazard
Warning
Switch
X1
C
F
X1
H1
G3
X52A
Fuse Block -
Passenger
Compartment
X2
H6
H5
X3
K7
X50A
Fuse Block -
Underhood
X4
E
X3
J4
X50A
Fuse Block -
Underhood
X4
D
1314
L-BU/WH
1315
D-BU/WH
X500
C7
X600
B3
351
BK/WH
351
BK/WH
1314
L-BU/WH
1314
L-BU/WH
1315
D-BU/WH
1315
D-BU/WH
A
E4N
Park/Turn
Signal
Lamp -
Left
C
B
A9A
Outside
Rearview
Mirror -
Driver
D
B
A9B
Outside
Rearview
Mirror -
Passenger
D
A
E4P
Park/Turn
Signal
Lamp -
Right
C
250
BK
450
BK
1850
BK
650
BK
G302
G100
G347
G348
G101

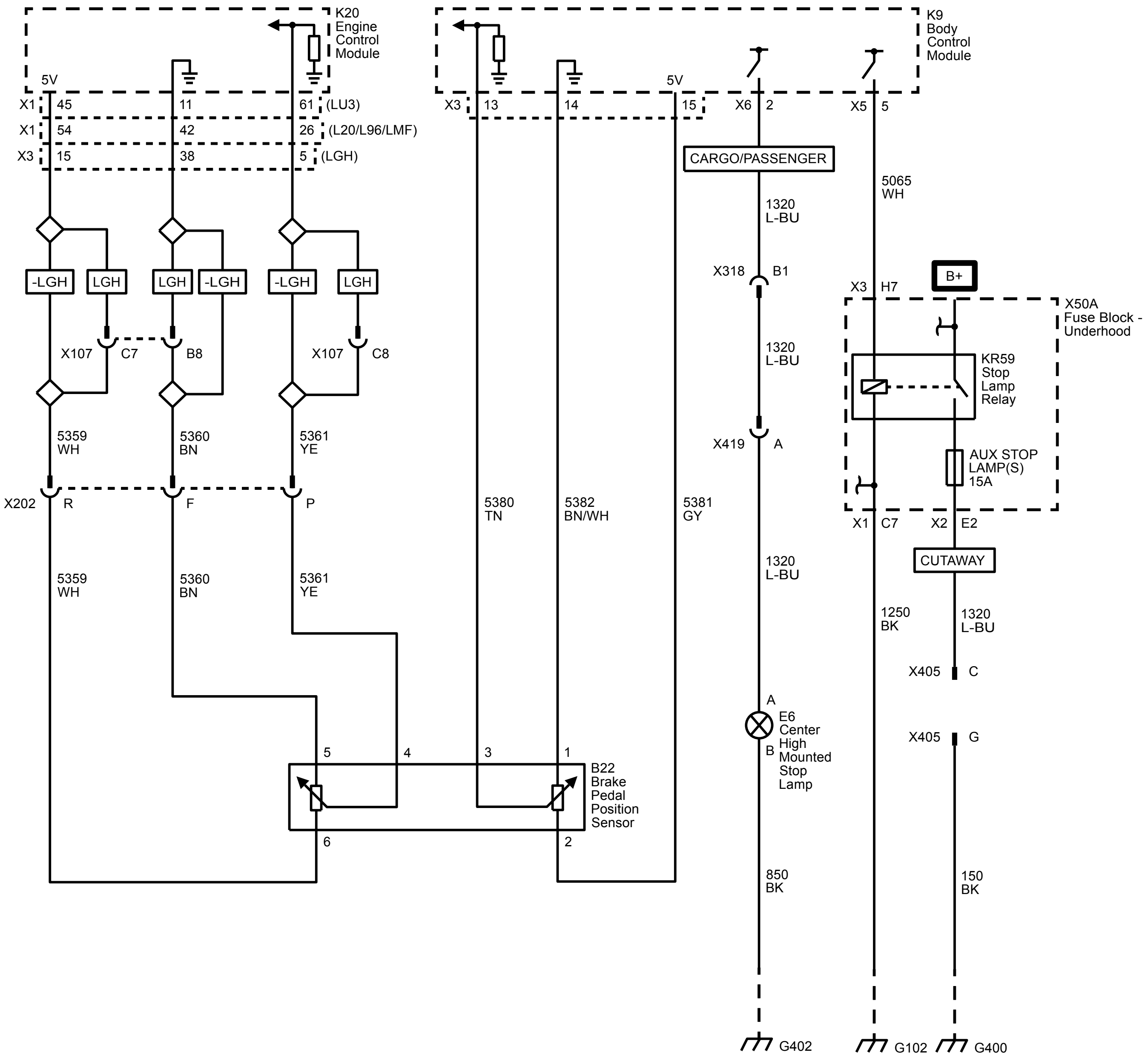
LOC
DESC

Rear Turn Signal Lamps

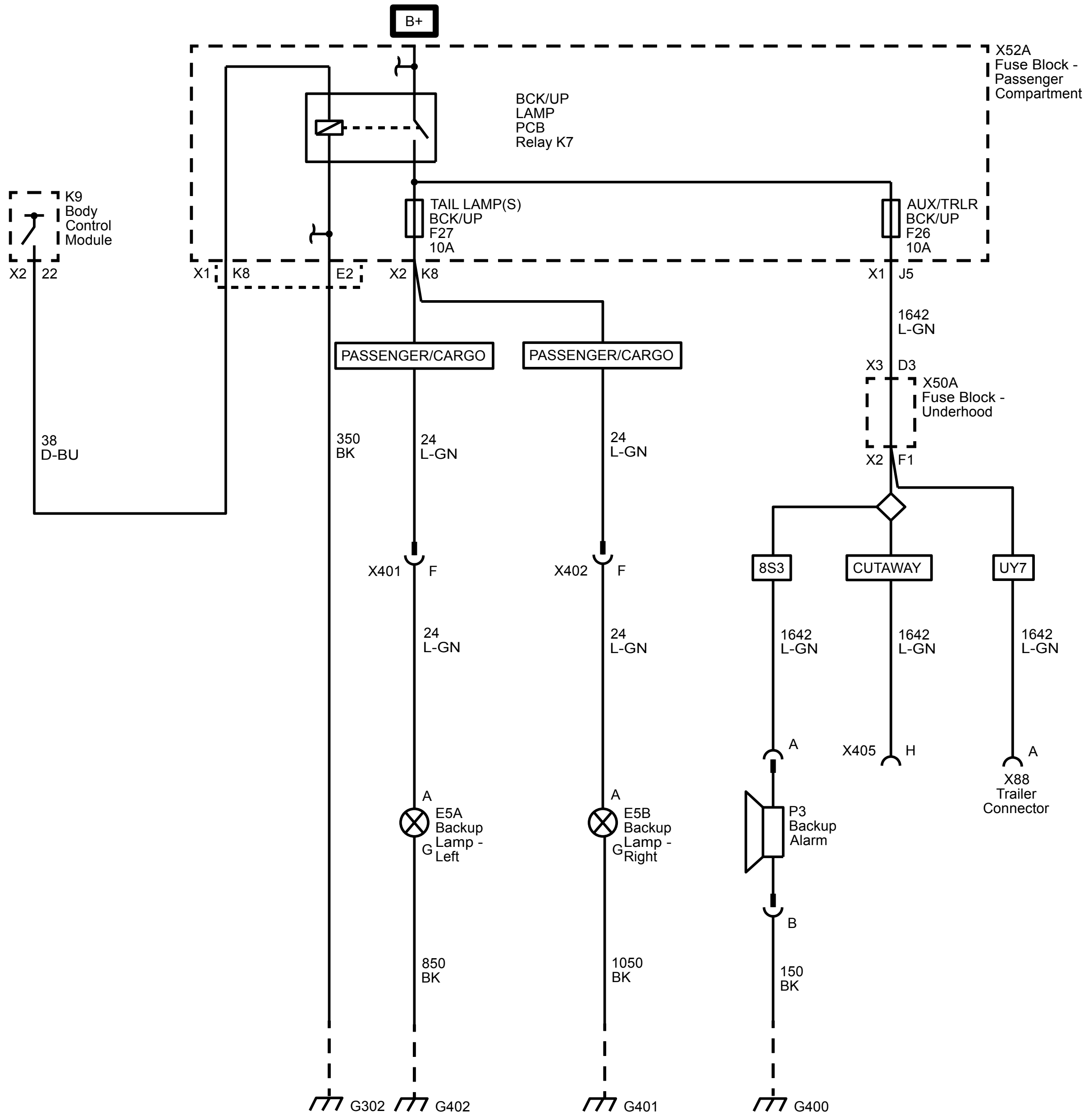

K9
Body
Control
Module
X5
1
2
1
2
CUTAWAY
CUTAWAY
CARGO/PASSENGER
CARGO/PASSENGER
618
YE
619
D-GN
618
YE
619
D-GN
X3
C8
C6
X50A
Fuse Block -
Underhood
X2
A2
A4
X1
C1
C3
X52A
Fuse Block -
Passenger
Compartment
X2
C7
C6
618
YE
619
D-GN
618
YE
619
D-GN
X405
D
E
X101
B
X402
B
618
YE
619
YE
A
E5S
Tail/Stop
and Turn
Signal
Lamp - Left
G
A
E5T
Tail/Stop
and Turn
Signal
Lamp -
Right
G
850
BK
1050
BK
G402
G401

L O C
D E S C

Stop Lamp Controls and CHMSL


K20
Engine
Control
Module
5V
X1 45 11 61 (LU3)
X1 54 42 26 (L20/L96/LMF)
X3 15 38 5 (LGH)
-LGH
LGH
LGH
-LGH
-LGH
LGH
X107 C7
B8
X107 C8
5359
WH
5360
BN
5361
YE
X202 R
F
P
5359
WH
5360
BN
5361
YE
K9
Body
Control
Module
X3 13
14
5V
15
X6 2
X5 5
CARGO/PASSENGER
1320
L-BU
X318 B1
1320
L-BU
X419 A
1320
L-BU
5065
WH
B+
X3 H7
X50A
Fuse Block -
Underhood
KR59
Stop
Lamp
Relay
AUX STOP
LAMP(S)
15A
X1 C7
X2 E2
CUTAWAY
1250
BK
1320
L-BU
X405 C
X405 G
5380
TN
5382
BN/WH
5381
GY
A
E6
Center
High
Mounted
Stop
Lamp
B
5
4
3
1
B22
Brake
Pedal
Position
Sensor
6
2
850
BK
150
BK
G402
G102
G400

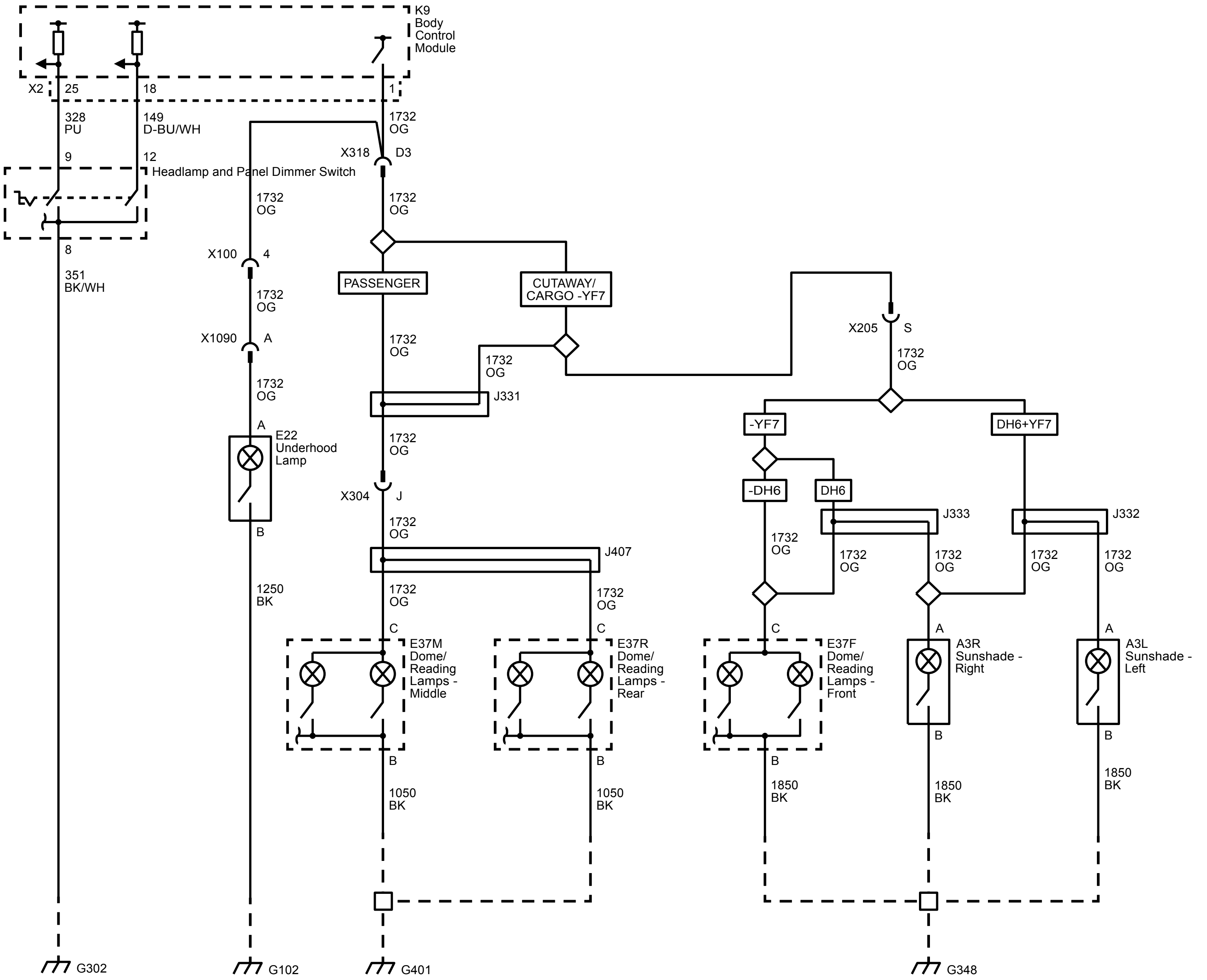
Backup Lamps and Backup Alarm


B+
X52A
Fuse Block -
Passenger
Compartment
BCK/UP
LAMP
PCB
Relay K7
K9
Body
Control
Module
X2
22
TAIL LAMP(S)
BCK/UP
F27
10A
AUX/TRLR
BCK/UP
F26
10A
X1
K8
E2
X2
K8
X1
J5
1642
L-GN
PASSENGER/CARGO
PASSENGER/CARGO
X3
D3
X50A
Fuse Block -
Underhood
X2
F1
38
D-BU
350
BK
24
L-GN
24
L-GN
8S3
CUTAWAY
UY7
X401
F
X402
F
24
L-GN
24
L-GN
1642
L-GN
1642
L-GN
1642
L-GN
A
X405
H
A
X88
Trailer
Connector
A
E5A
Backup
Lamp -
Left
G
A
E5B
Backup
Lamp -
Right
G
P3
Backup
Alarm
B
850
BK
1050
BK
150
BK
G302
G402
G401
G400

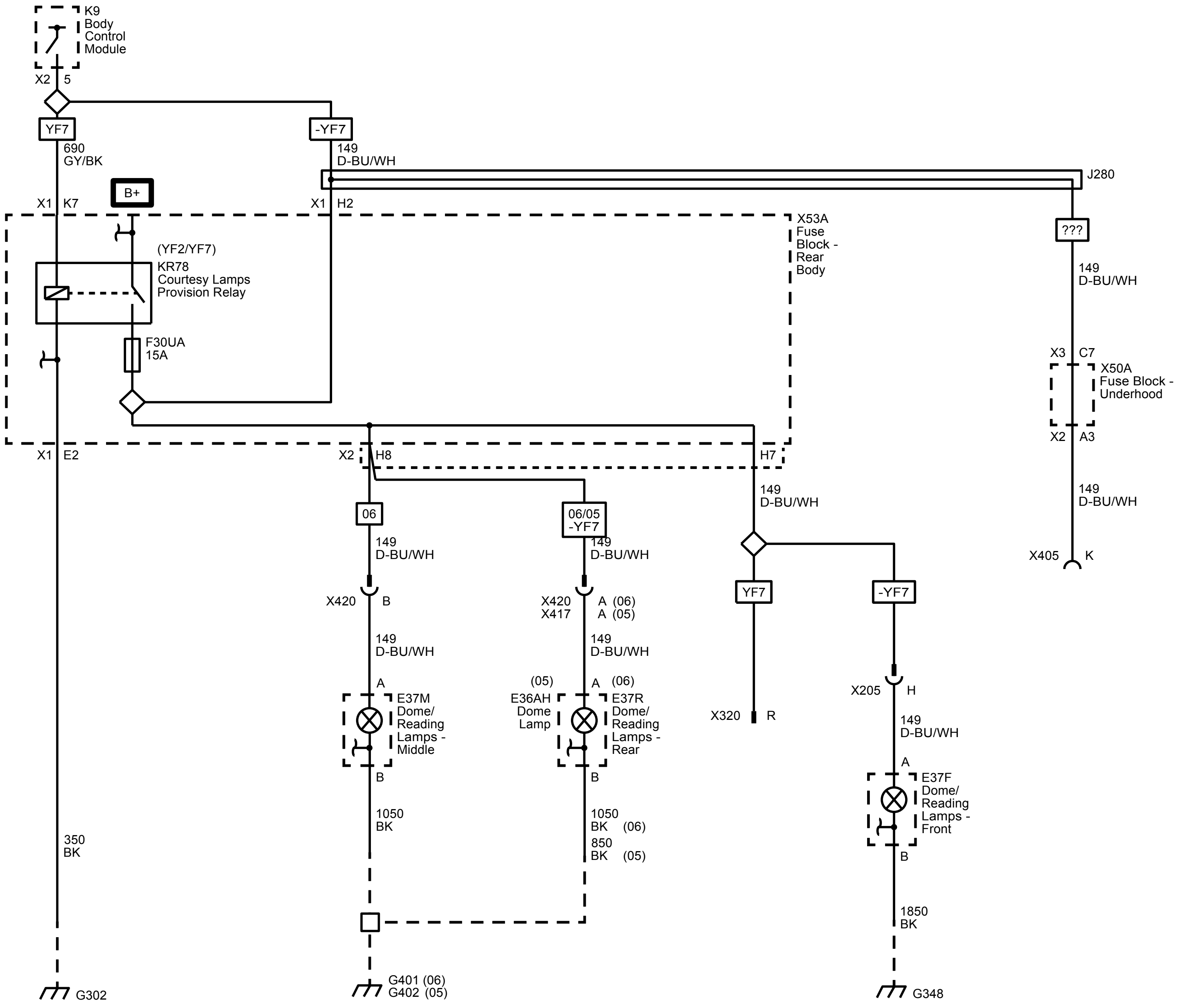
2015 CHEVROLET EXPRESS/GMC SAVANA ELECTRICAL SECTION

Interior Lights Schematics

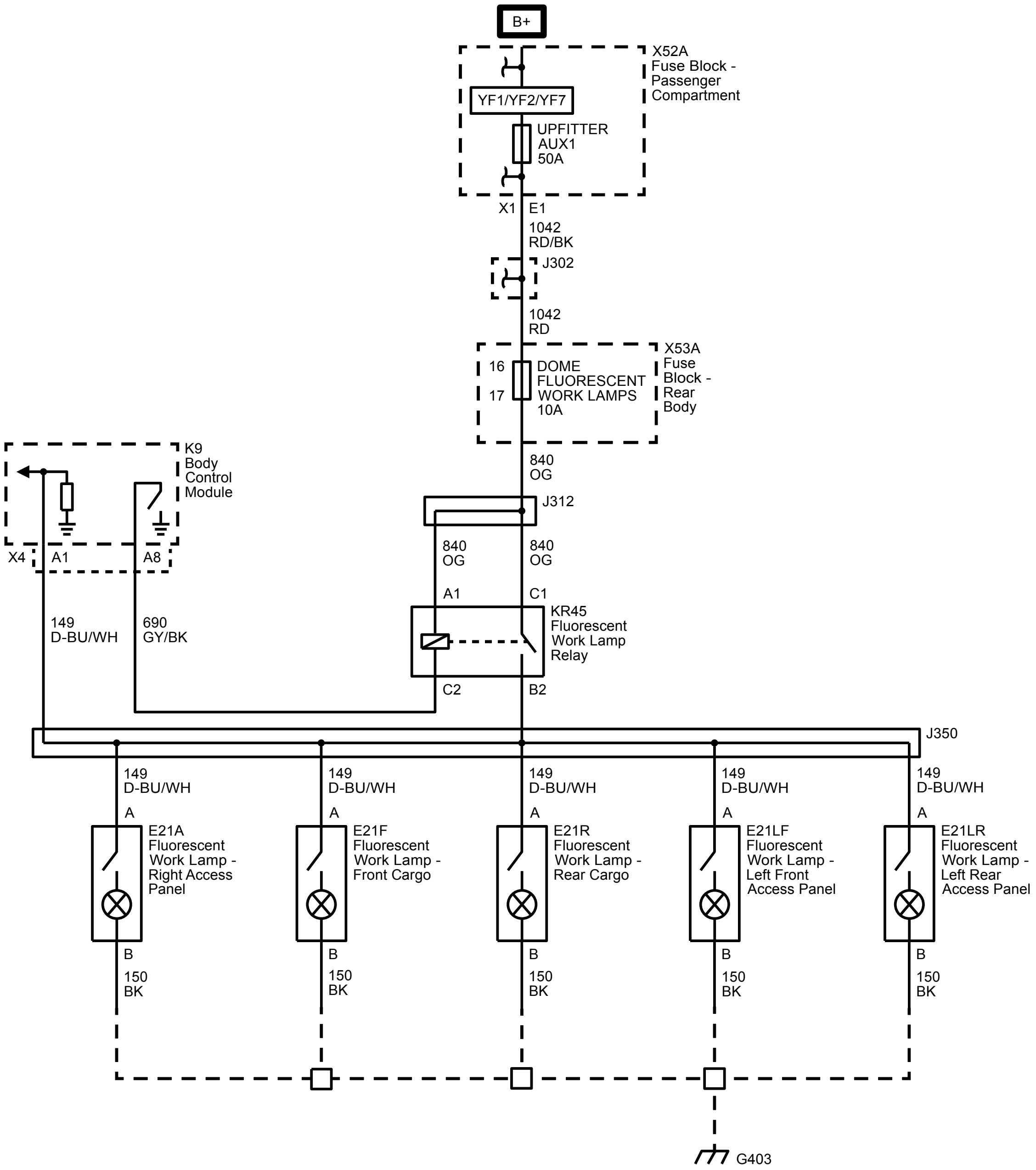
Inadvertent Lamp Control


K9
Body
Control
Module
X2
25
18
1
328
PU
149
D-BU/WH
1732
OG
X318
D3
9
12
Headlamp and Panel Dimmer Switch
1732
OG
1732
OG
8
351
BK/WH
X100
4
1732
OG
PASSENGER
CUTAWAY/
CARGO -YF7
X1090
A
1732
OG
1732
OG
1732
OG
J331
X205
S
1732
OG
A
E22
Underhood
Lamp
1732
OG
X304
J
-YF7
DH6+YF7
-DH6
DH6
J333
J332
1732
OG
J407
1732
OG
B
1250
BK
1732
OG
1732
OG
1732
OG
1732
OG
1732
OG
1732
OG
C
C
C
A
A
E37M
Dome/
Reading
Lamps -
Middle
E37R
Dome/
Reading
Lamps -
Rear
E37F
Dome/
Reading
Lamps -
Front
A3R
Sunshade -
Right
A3L
Sunshade -
Left
B
B
B
B
B
1050
BK
1050
BK
1850
BK
1850
BK
1850
BK
G302
G102
G401
G348

Courtesy Lamp Control

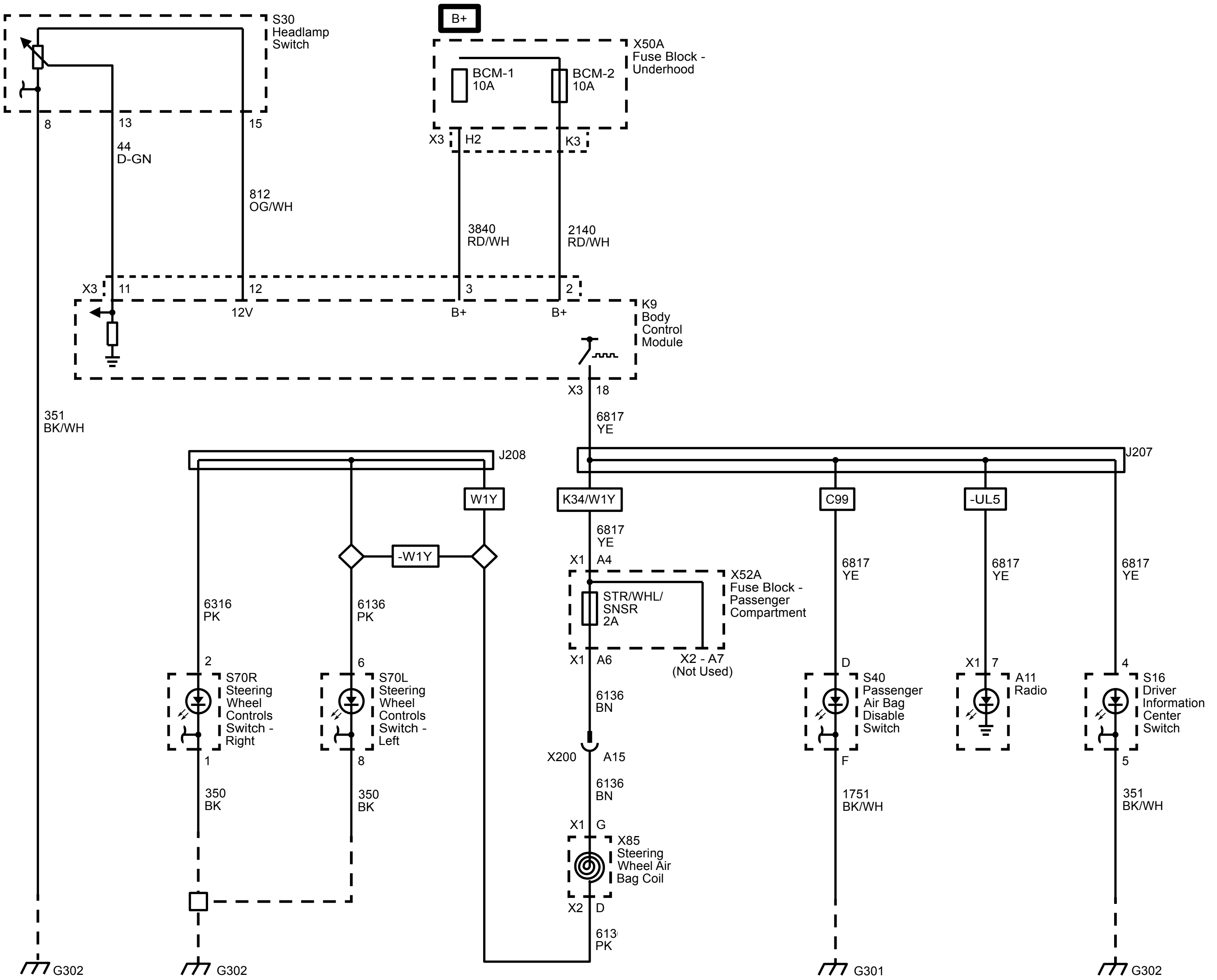

K9
Body
Control
Module
X2 5
YF7
-YF7
690
GY/BK
149
D-BU/WH
J280
B+
X1 K7
X1 H2
X53A
Fuse
Block -
Rear
Body
???
(YF2/YF7)
KR78
Courtesy Lamps
Provision Relay
149
D-BU/WH
F30UA
15A
X3 C7
X50A
Fuse Block -
Underhood
X2 A3
X1 E2
X2 H8
H7
149
D-BU/WH
149
D-BU/WH
06
06/05
-YF7
149
D-BU/WH
149
D-BU/WH
X405 K
X420 B
X420
X417
A (06)
A (05)
YF7
-YF7
149
D-BU/WH
149
D-BU/WH
A
E37M
Dome/
Reading
Lamps -
Middle
(05)
E36AH
Dome
Lamp
A (06)
E37R
Dome/
Reading
Lamps -
Rear
X320 R
X205 H
149
D-BU/WH
A
E37F
Dome/
Reading
Lamps -
Front
B
B
B
1050
BK
1050
BK (06)
850
BK (05)
350
BK
1850
BK
G302
G401 (06)
G402 (05)
G348

Dome Fluorescent Work Lamps (PRP with UF2)


B+
X52A Fuse Block - Passenger Compartment
YF1/YF2/YF7
UPFITTER AUX1 50A
X1 E1
1042 RD/BK
J302
1042 RD
X53A Fuse Block - Rear Body
16
17
DOME FLUORESCENT WORK LAMPS 10A
840 OG
J312
840 OG
840 OG
A1
C1
KR45 Fluorescent Work Lamp Relay
C2
B2
K9 Body Control Module
X4
A1
A8
149 D-BU/WH
690 GY/BK
J350
149 D-BU/WH
A
E21A Fluorescent Work Lamp - Right Access Panel
E21F Fluorescent Work Lamp - Front Cargo
E21R Fluorescent Work Lamp - Rear Cargo
E21LF Fluorescent Work Lamp - Left Front Access Panel
E21LR Fluorescent Work Lamp - Left Rear Access Panel
B
150 BK
G403

Interior Lights Dimming Schematics

Dimming Controls and LED Dimming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S30
Headlamp
Switch
8
13
15
44
D-GN
812
OG/WH
X50A
Fuse Block -
Underhood
BCM-1
10A
BCM-2
10A
X3
H2
K3
3840
RD/WH
2140
RD/WH
X3
11
12
3
2
12V
B+
B+
K9
Body
Control
Module
X3
18
351
BK/WH
6817
YE
J208
J207
W1Y
K34/W1Y
C99
-UL5
-W1Y
6817
YE
X1
A4
X52A
Fuse Block -
Passenger
Compartment
STR/WHL/
SNSR
2A
6817
YE
6817
YE
6817
YE
6316
PK
6136
PK
X1
A6
X2 - A7
(Not Used)
2
S70R
Steering
Wheel
Controls
Switch -
Right
6
S70L
Steering
Wheel
Controls
Switch -
Left
6136
BN
D
S40
Passenger
Air Bag
Disable
Switch
X1
7
A11
Radio
4
S16
Driver
Information
Center
Switch
1
8
X200
A15
F
5
350
BK
350
BK
6136
BN
1751
BK/WH
351
BK/WH
X1
G
X85
Steering
Wheel Air
Bag Coil
X2
D
613
PK
G302
G302
G301
G302

I/P Bulb Dimming (1 of 2)

LOC
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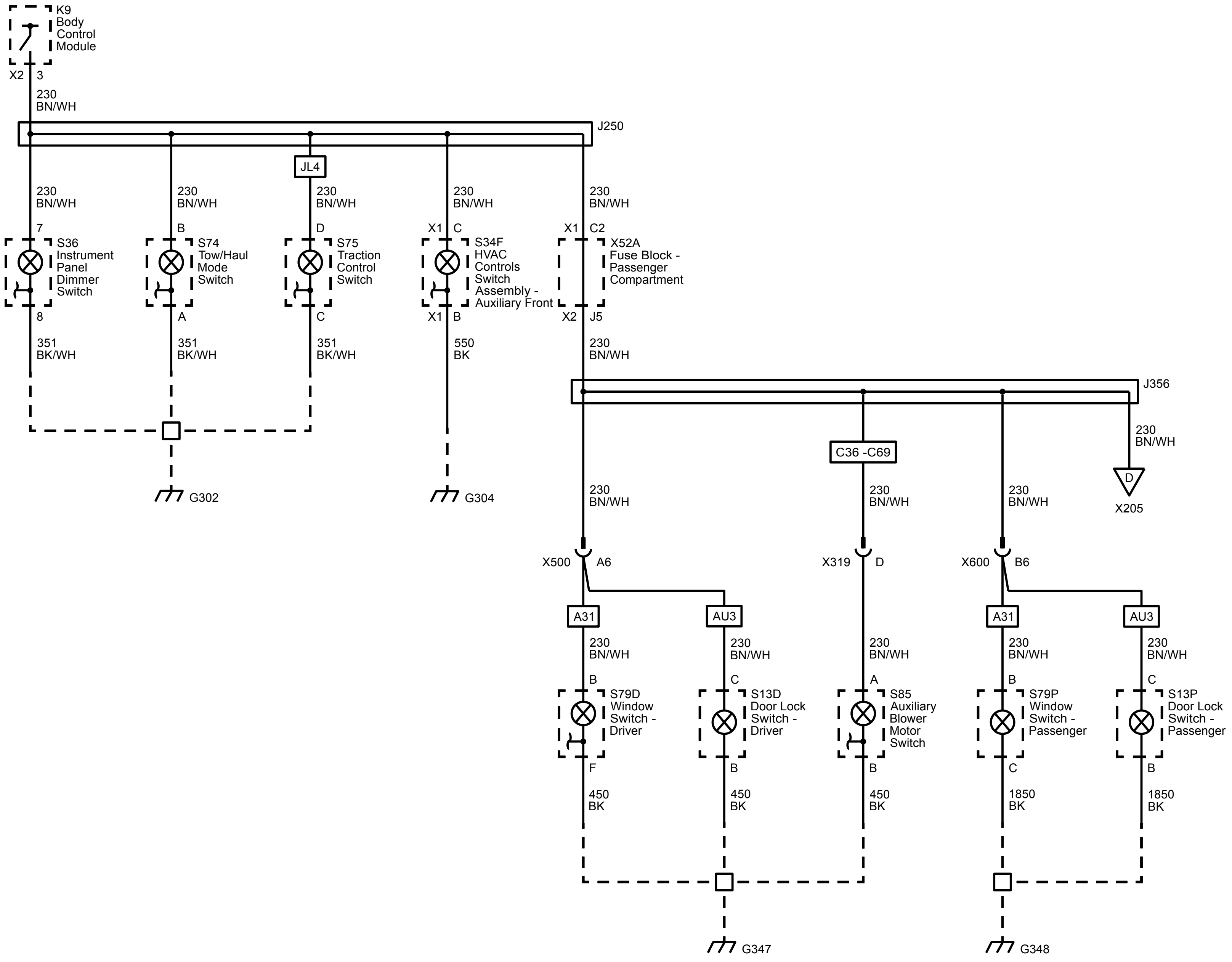
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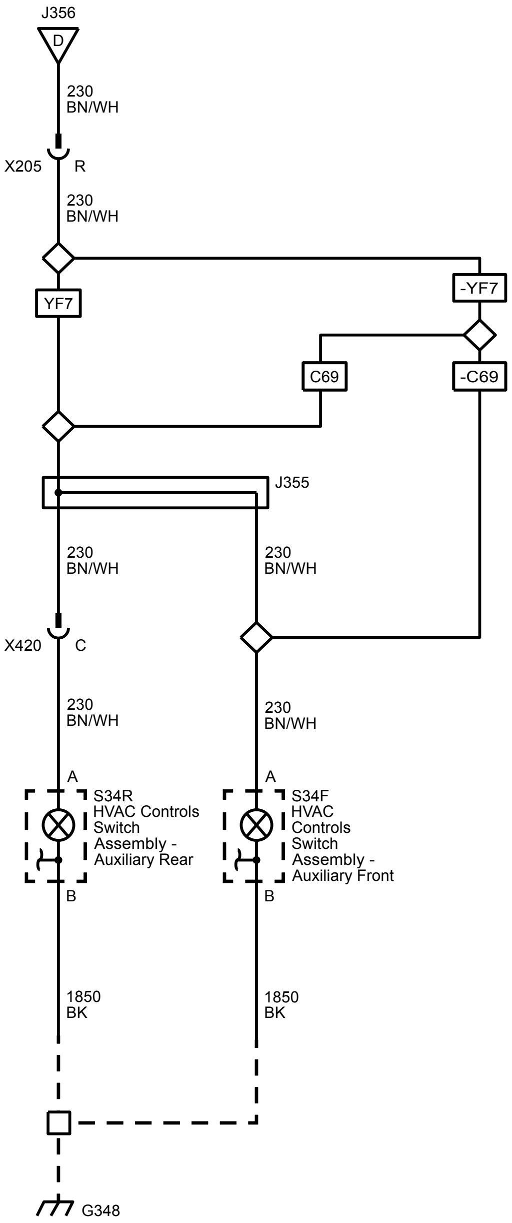
Body
Control
Module
X2 3
230
BN/WH
J250
JL4
230
BN/WH
7
S36
Instrument
Panel
Dimmer
Switch
8
351
BK/WH
B
S74
Tow/Haul
Mode
Switch
A
351
BK/WH
D
S75
Traction
Control
Switch
C
351
BK/WH
X1 C
S34F
HVAC
Controls
Switch
Assembly -
Auxiliary Front
X1 B
550
BK
X1 C2
X52A
Fuse Block -
Passenger
Compartment
X2 J5
230
BN/WH
G302
G304
J356
C36 -C69
D
X205
X500 A6
X319 D
X600 B6
A31
AU3
B
S79D
Window
Switch -
Driver
F
450
BK
C
S13D
Door Lock
Switch -
Driver
B
450
BK
A
S85
Auxiliary
Blower
Motor
Switch
B
450
BK
B
S79P
Window
Switch -
Passenger
C
1850
BK
C
S13P
Door Lock
Switch -
Passenger
B
1850
BK
G347
G348

I/P Bulb Dimming (2 of 2)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D
230
BN/WH
X205
R
230
BN/WH
YF7
-YF7
C69
-C69
J355
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BN/WH
230
BN/WH
X420
C
230
BN/WH
230
BN/WH
A
S34R
HVAC Controls
Switch
Assembly -
Auxiliary Rear
B
A
S34F
HVAC
Controls
Switch
Assembly -
Auxiliary Front
B
1850
BK
1850
BK
G348

Description and Operation

Exterior Lighting Systems Description and Operation

Exterior Lamps

The exterior lighting consist of the following lamps:

- Headlamps
- Daytime running lamps (DRL)
- Park lamps
- Tail lamps
- License lamps
- Marker lamps
- Turn signal lamps
- Stop lamps
- Center high mounted stop lamp (CHMSL)
- Backup lamps

Low Beam Headlamp Operation

The headlamps may be turned ON in 3 different ways:

- When the headlamp switch in the HEAD position for normal operations
- When the headlamp switch is in the AUTO position, for automatic lamp control (ALC)
- When the headlamp switch is placed in the AUTO position, with the windshield wipers ON in daylight conditions, after a 6 second delay

Battery voltage is applied at all times to the coil and switch sides of the LOW BEAM PCB Relay located in the underhood fuse block. With the headlamp switch in the headlamps ON position, ground is applied through the headlamps ON switch signal circuit to the body control module (BCM) signaling the headlamps ON request. In response to this signal, the BCM applies ground through the low beam relay control circuit energizing the LOW BEAM PCB Relay. With the relay energized, battery voltage is applied through the switch side of the relay, the LT and RT LOW BEAM fuses, and the low beam supply voltage circuits illuminating the low beam headlamps.

High Beam Headlamp Operation

Battery voltage is applied at all times to the coil and switch sides of the HIGH BEAM PCB Relay located in the underhood fuse block. When the headlamp dimmer switch is placed in the high beam position, the headlamp dimmer switch signal circuit to the BCM is pulled low signaling the headlamp high beam request. In response to this signal, the BCM applies ground through the high beam relay control circuit energizing the high beam relay. With the relay energized, battery voltage is applied through the switch side of the relay, the LT and RT HIGH BEAM fuses, and the high beam supply voltage circuits illuminating the high beam headlamps. At the same time the BCM sends a serial data message to the instrument panel cluster (IPC) requesting the IPC to illuminate the high beam indicator.

Flash to Pass (FTP)

When the headlamp dimmer switch is pulled toward the driver, the flash to pass signal circuit to the BCM is pulled low signaling the flash to pass request. The BCM then turns ON the high beam headlamps as described above until the headlamp dimmer switch is released. If the low beam headlamps were ON during FTP operation they will remain ON.

Daytime Running Lamps (DRL) and Automatic Lamp Control (ALC)

The low beam headlamps are used for DRL operation at a reduced intensity. The DRLs will operate only with the ignition ON, the headlamp switch in the AUTO position, and the gear selector out of the park position. No other exterior lamps such as the parking lamps, tail lamps, etc. will be on when the DRL are being used. The instrument panel will not be illuminated either.

DRL operation is determined by the ambient light sensor and controlled by the body control module (BCM). The ambient light sensor is a light-sensitive transistor used to monitor outside lighting conditions. The BCM provides a 5-volt reference signal to the sensor. The sensor will vary this voltage signal between 0.2 and 4.9 volts depending on outside lighting conditions. The BCM monitors the ambient light sensor signal circuit to determine if outside lighting conditions are correct for either DRL or ALC operation. When the BCM determines the conditions are met for DRL operation, it applies ground to the DRL relay control circuit energizing the DRL PCB Relay. With the relay energized, battery voltage is applied through the switch side of the relay, the DRL 1 fuse, the DRL 2 fuse, both low beam headlamp fuses, and the low beam supply voltage circuits illuminating the headlamps at a reduced intensity. Any function or condition that turns on the headlamps will cancel DRL operation.

When the BCM detects low light conditions, it will turn OFF the daytime running lamps and turn ON the low beam headlamps as described above in Low Beam Headlamp Operation. The BCM will also turn ON the low beam headlamps in daylight conditions when the windshield wipers are turned ON.

HDLPS Suggested Indicator

If the park lamps are turned ON manually and the ambient light sensor detects a low light condition then the body control module (BCM) will send a message to the instrument panel cluster (IPC) to display the HEADLAMPS SUGGESTED message.

Lights ON Warning

The body control module (BCM) activates the lights ON warning as requested by the headlamp dimmer switch. The lights ON warning sounds when the following occurs:

- The key is out of the ignition.
- The BCM determines that the drivers door is open, signal is low.
- The BCM determines that the headlamp switch is in the PARK or HEAD position.

Park, Tail, Marker and License Lamps

The park, tail, and marker lamps are turned ON when the headlamp switch is placed in either the HEAD or PARK lamp positions, or anytime the automatic light control (ALC) turns the headlamps ON. When the headlamp switch is placed in the park lamp or headlamp positions, ground is applied through the switch signal circuit to the BCM indicating the park lamp ON request. In response to this signal, the BCM applies ground through the park lamp relay control circuit energizing the PRK LAMP Relay. With the relay energized, battery voltage is applied through the switch side of the relay, the park lamp fuses, and the supply voltage circuits illuminating the park, license, side marker, and tail lamps.

Turn Signal Lamps

The BCM 3, BCM 5, and BCM 6 fuses located in the underhood fuse block supply battery voltage to the body control module (BCM) for turn signal, hazard lamp, and stop lamp operation. Voltage from the BCM 5 fuse used for the front and rear left turn signals, voltage from the BCM 3 for the right front turn signal, while voltage from the BCM 6 fuse is used for the right rear turn signal. When the turn signal switch is place in either the LEFT or RIGHT position, ground is applied through the turn signal switch signal circuit to the BCM indicating the turn signal request. In response to this signal, the BCM applies a pulsating voltage to the front and rear turn signal lamps supply voltage circuits cycling the lamps ON and OFF. The BCM also sends a message via to the instrument panel cluster (IPC) to cycle the turn signal indicator ON and OFF depending on the position of the turn signal switch.

Hazard Lamps

The hazard flashers may be activated in any power mode. When the hazard lamp switch is placed in the ON position, ground is applied through the hazard switch signal circuit to the body control module (BCM) indicating the hazard lamps ON request. In response to this signal, the BCM applies a pulsating voltage though all front and rear turn signal supply voltage circuits cycling the lamps ON and OFF. The BCM also sends a serial data message to the instrument panel cluster (IPC) to cycle both turn signal indicators ON and OFF.

Stop Lamps

The brake pedal position sensor is used to sense the action of the driver application of the brake pedal. The brake pedal position sensor provides an analog voltage signal that will increase as the brake pedal is applied. The body control module (BCM) provides a low reference signal and a 5-volt reference voltage to the brake pedal position sensor. When the variable signal reaches a voltage threshold indicating the brakes have been applied, the BCM will apply battery voltage to the right and left stop lamp control circuits, transmission control module (TCM), engine control module (ECM), center high mounted stop lamp (CHMSL) control circuit, and trailer brake control module if equipped. The stop lamps on this vehicle will not illuminate unless the ignition is in the accessory, run, or crank positions. When the ignition is in the OFF position the stop lamps will not illuminate when the brake pedal is applied.

The stop lamps on this vehicle will not illuminate unless the ignition is in the accessory, run, or crank positions. When the ignition is in the OFF position the stop lamps will not illuminate when the brake pedal is applied.

Backup Lamps

When the gear selector is placed in the REVERSE position, the powertrain control module (PCM) sends a serial data message to the BCM indicating the backup lamps ON request. The BCM then applies battery voltage through the backup relay control circuit energizing the BCK/UP LAMP PCB Relay. With the relay energized, battery voltage is applied through the switch side of the relay, the T/LAMP BCK/UP fuse, the AUX/TRLR BCK/UP fuse and the supply voltage circuits illuminating the left and right backup lamps and the backup alarm. The engine may need to be running for the backup lamps to function.

Rear Fog Lamps

The rear fog lamps are located in the rear bumper. The fog lamps will operate only when the ignition in the RUN or CRANK positions. When the rear fog lamp switch is turned ON, ground is applied through the rear fog lamp switch signal circuit to the body control module (BCM) indicating the rear fog lamps ON request. In response to this signal, the BCM applies ground to the rear fog lamp relay control circuit energizing the REAR FOG LP PCB Relay. With the relay energized, battery voltage is applied through the switch side of the relay, the RR FOG LP fuse and the rear fog lamp supply voltage circuit to the left and right rear fog lamps. The BCM sends a serial data message to the instrument panel cluster (IPC) requesting the rear fog lamp indicator be illuminated. The rear fog lamps will deactivate if the headlamps are turned OFF, if the ignition is turned to the OFF position upon a key cycle, or if the driver turns the rear fog lamp switch OFF.

Battery Rundown Protection/Inadvertent Power

The BCM controls the lighting system through circuits that enable the exterior lamp functions of the park lamps, the head lamps, the fog lamps, and the interior lamps. The BCM will open these enabling circuits 10 minutes after the ignition switch is turned OFF with no lamp switch activity. If the ignition switch is turned to any position other than OFF, or if a lamp switch is activated during this time period, the timer will reset for another 10 minutes.

Interior Lighting Systems Description and Operation

The interior lighting consist of two groups; lamps that may not be manually dimmed (Interior Lamps) and lamps that may be dimmed (Interior Lamps Dimming).

The first group listed below includes lamps that may not be dimmed:

- Front dome/reading lamps
- Middle dome/reading lamps
- Rear dome/reading lamps
- Sunshade Mirror Lamps
- Underhood Lamp

Interior Lamps Features

The interior lamps system features the following functions:

- An illuminated entry feature that illuminates the courtesy lamps when entering the vehicle or activating the remote keyless entry system.
- An illuminated exit feature that illuminates the courtesy lamps when the ignition key has been removed from the ignition.
- An inadvertent power feature that supplies voltage to all interior lamps after the ignition is turned OFF. The inadvertent power feature will deactivate all interior lamps after 10 minutes to prevent battery rundown.
- A theater dimming feature that will slowly dim the interior lamps from full brightness to OFF.
- Individual switches for control of each interior lamp that is not illuminate with the interior lamp switch.

Courtesy Lamps (−YF2/YF7)

When any one of the doors is opened, ground is applied through the door latch door open switch and the door open switch signal circuit to the BCM indicting the door open position. In response to this signal, the BCM then applies battery voltage through the courtesy lamp supply voltage circuits illuminating the courtesy lamps.

Courtesy Lamps (+YF2/YF7)

When any one of the doors is opened, ground is applied through the door latch door open switch and the door open switch signal circuit to the BCM indicting the door open position. In response to this signal, the BCM then applies battery voltage to the courtesy lamp relay control circuit energizing the UPFITTR CTSY LAMPS PCB Relay. With the relay energized. battery voltage is applied through the switch side of the relay and the supply voltage circuits illuminating the courtesy lamps.

Courtesy Lamps Manual Operation

The courtesy lamps can be manually turned ON by the IP dimmer switch. When the dimmer switch is placed in the DOME position, ground is applied through the dimmer switch and the courtesy lamp switch ON signal circuit to the BCM indicating the courtesy lamps ON request. In response to this signal, the BCM then applies battery positive voltage through the courtesy lamp supply voltage circuits illuminating the courtesy lamps listed above. The courtesy lamps ON operation of the dimmer switch will override any BCM operation of the interior lamps already in progress.

Keyless Entry Interior Illumination

When the remote function actuator transmitter is used to unlock the doors, the BCM receives a door-unlock signal. The BCM must have inputs that indicate that the ignition switch is OFF, the courtesy lamp switch is OFF, and all the doors are closed. The BCM will then illuminate the courtesy lamps and will remain illuminated for approximately 25 seconds after the door is closed. If the door locks are activated to the LOCK position, or if the ignition switch is turned to either the RUN or START position, the BCM will turn OFF the courtesy lamps immediately.

Courtesy/Illuminated Exit

The illuminated exit feature will activate the courtesy lamps when the key IN input of the BCM transitions from an active state to an inactive state (removing the ignition key). When the key is removed from the ignition, the key IN input to the BCM becomes inactive. The BCM will illuminate the courtesy lamps for approximately 25 seconds.

Theater Dimming

The theater dimming feature that will slowly dim the interior lamps from full brightness to OFF. The following actions will over ride the theater dimming feature causing the courtesy lamps to deactivate immediately if no other BCM function commands the courtesy lamps ON:

- A transition from active to inactive of the interior lamps switch, turning OFF the interior lamps switch
- A LOCK command from the remote keyless entry system
- A last door closed locking function, locking and closing all the doors

Underhood Compartment Lamp

The BCM supplies battery positive voltage through the inadvertent power courtesy lamps circuit to the underhood compartment lamp. When the hood is opened, the underhood compartment lamp switch closes to ground and the lamp illuminates.

Dome/Reading Lamps

The dome/reading lamp is a duel purpose lamp that can be illuminated two different ways. First, the lamp can be turned ON during courtesy lamp operation as described above. Second, the lamps can be turned ON individually for reading lamp operation by the lamp switch. The BCM supplies battery voltage through the inadvertent power courtesy lamp circuit to the dome/reading lamp for reading lamp operation only.

Sunshade Vanity Mirror Lamps

The BCM supplies battery voltage through the inadvertent power courtesy lamps circuit to the left and right vanity mirror lamps. When the vanity mirror cover on the sunshade is opened, the vanity mirror lamp switch is closed to ground and the lamp illuminates.

Interior Lamps Dimming

The second interior lighting group includes lamps which may be dimmed. This group may use a combination of vacuum fluorescent (VF) illumination, LED illumination and incandescent lamps.

- Headlamp switch
- Tow/haul switch
- Traction control switch
- HVAC control module
- Driver window switch
- Driver power door lock switch
- Auxiliary blower motor switch
- Front passenger window switch
- Front passenger door lock switch
- Front auxiliary HVAC control assembly
- Rear auxiliary HVAC control assembly
- Steering wheel controls
- Inflatable restraint I/P module disable switch
- Driver information center (DIC) display switch
- Radio

When the ignition switch is turned to the RUN position, the instrument panel cluster (IPC), radio VF display, and the HVAC control assembly turns ON at maximum brightness. When the headlamp switch is in the PARK or HEADLAMP ON position, all incandescent and LED back lighting turn ON at the dimming level indicated by the instrument panel (I/P) dimmer switch. The dimmer switch is used to increase and decrease the brightness of the interior backlighting components. The BCM supplies a voltage reference through the I/P dimming voltage reference circuit to the interior lamp dimmer switch, which is part of the headlamp switch. When the dimmer switch is placed in a desired brightness position, reference voltage is applied through the dimmer switch rheostat and the I/P lamps dimmer switch signal circuit to the BCM. The BCM interprets this voltage signal, then applies a pulse width modulated (PWM) voltage through the I/P lamps supply voltage circuits and the LED dimming supply circuit to all related interior backlighting lamps illuminating them to the desired level of brightness.

Battery Rundown Protection / Inadvertent Power

The BCM controls the lighting system through circuits that enable the exterior lamp functions of the park lamps, the head lamps, the fog lamps, and the interior lamps. The BCM opens these enabling circuits 10 minutes after the ignition switch is turned OFF with no lamp switch activity. If the ignition switch is turned to any position other than OFF, or if a lamp switch is activated during this time period, the timer resets for another 10 minutes.

Body Systems

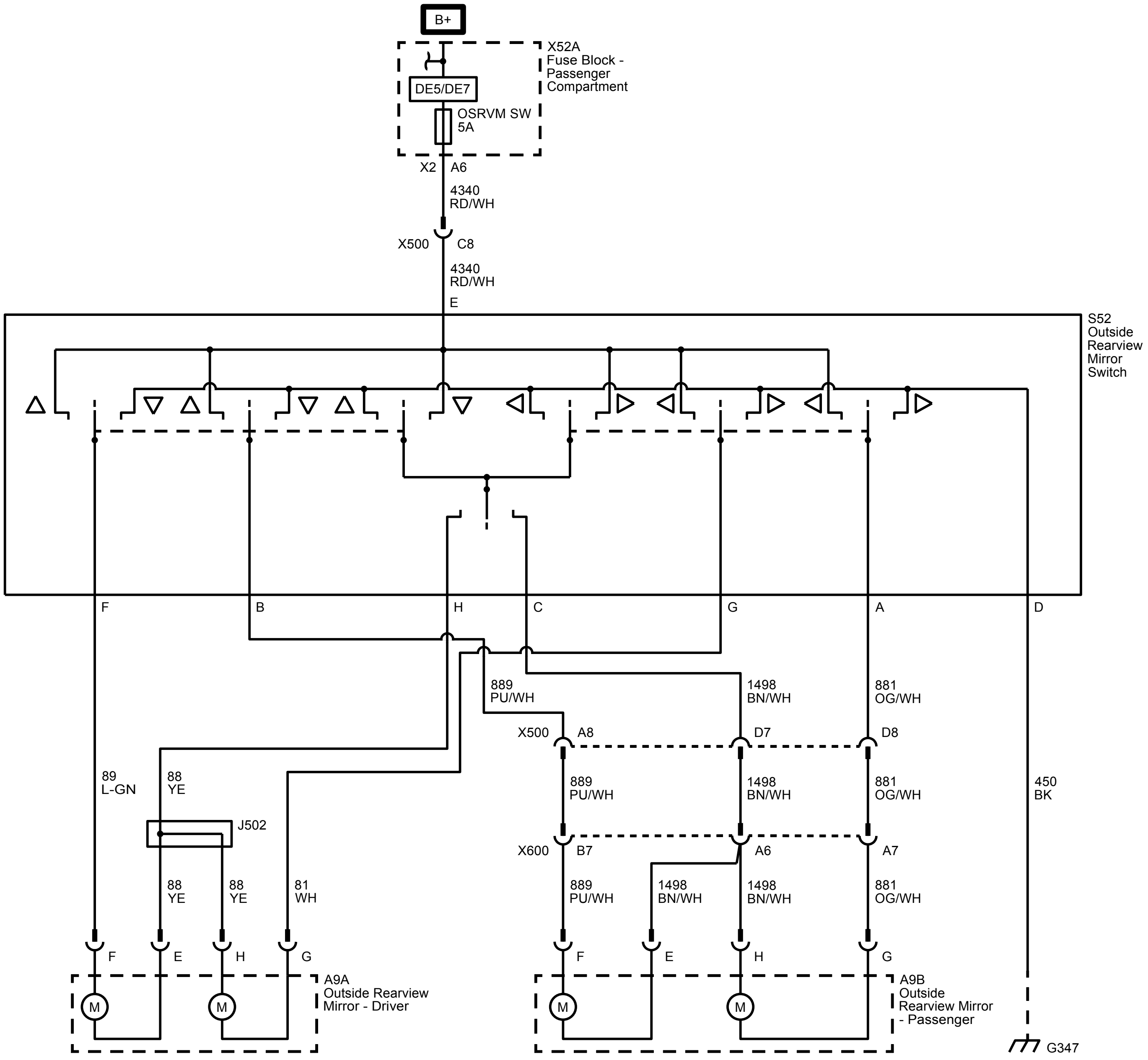
Mirrors

Schematic and Routing Diagrams

Outside Rearview Mirror Schematics

Power, Ground, Power Mirror Switches and Motors

LOC
DESC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X500
C8
4340 RD/WH
E
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H
C
G
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X500
A8
D7
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881 OG/WH
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X600
B7
A6
A7
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88 YE
81 WH
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1498 BN/WH
1498 BN/WH
881 OG/WH
F
E
H
G
F
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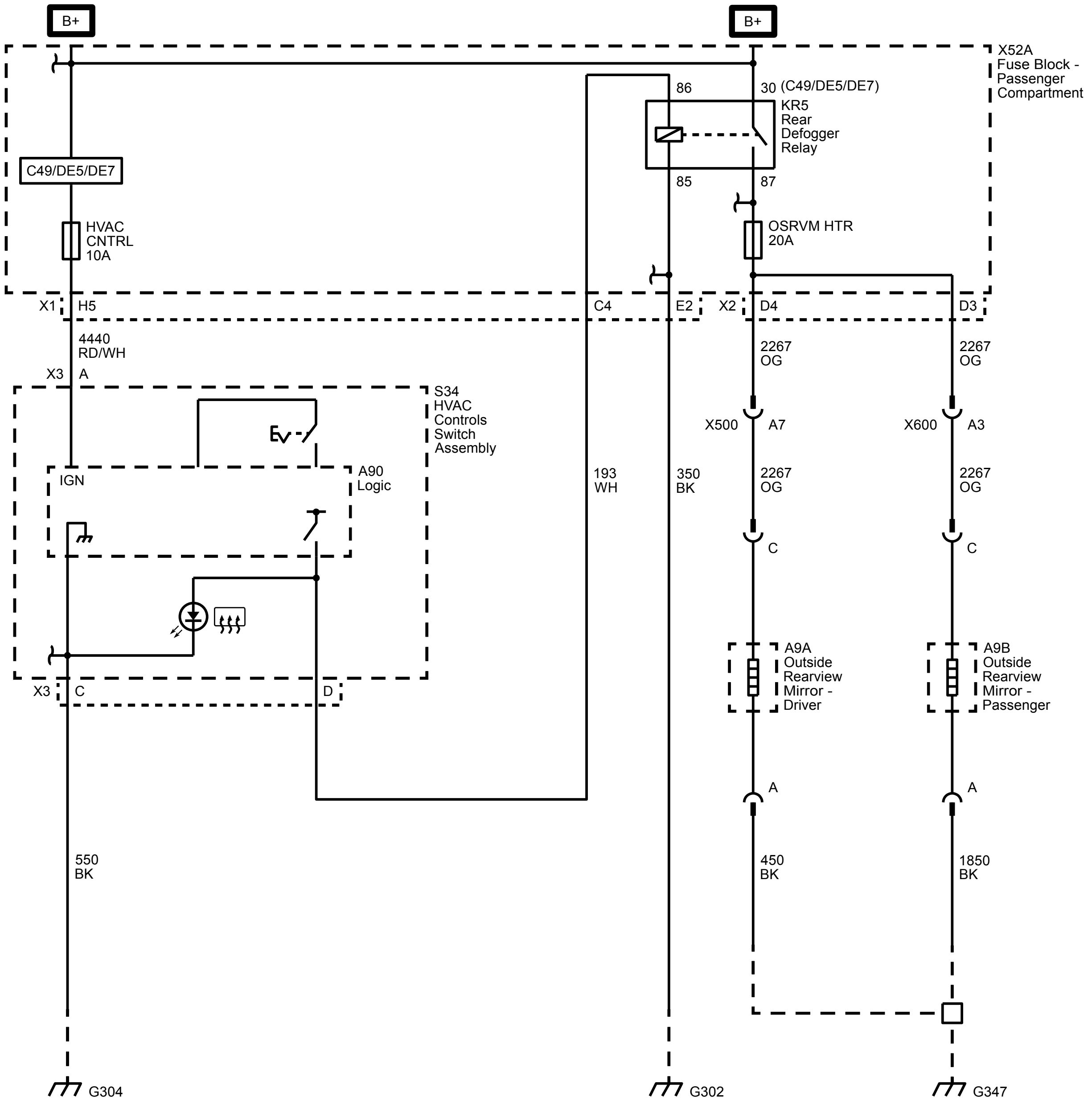
H
G
M
M
M
M
A9A Outside Rearview Mirror - Driver
A9B Outside Rearview Mirror - Passenger
G347

Heated Mirrors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Fuse Block -
Passenger
Compartment
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KR5
Rear
Defogger
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C49/DE5/DE7
HVAC
CNTRL
10A
OSRVM HTR
20A
X1
H5
C4
E2
X2
D4
D3
4440
RD/WH
X3
A
S34
HVAC
Controls
Switch
Assembly
IGN
A90
Logic
2267
OG
2267
OG
X500
A7
X600
A3
193
WH
350
BK
2267
OG
2267
OG
C
C
A9A
Outside
Rearview
Mirror -
Driver
A9B
Outside
Rearview
Mirror -
Passenger
X3
C
D
A
A
550
BK
450
BK
1850
BK
G304
G302
G347

Description and Operation

Outside Mirror Description and Operation

Outside Mirror System Components

The power mirror system consists of the following components:

- Power mirror switch
- Selector switch
- Left outside power mirror
- Right outside power mirror
- OSRVM 10A fuse
- HVAC control module
- Left outside power mirror
- Right outside power mirror

Each of the outside power mirrors contains two reversible motors. The vertical motor operates the up and down directions and the horizontal motor operates the left and right directions. Each of the power mirror motors are circuit breaker protected.

Power Mirror System Controls

The power mirror switch incorporates a mirror select switch and a four position mirror direction switch.

The mirror select switch allows the operator to select the mirror to be moved by rotating counterclockwise to the L position, left outside power mirror, or rotating clockwise to the R position, right outside power mirror.

The mirror direction switch is a 4 position switch that allows the operator to move the selected mirror up, down, left or right.

Power Mirror System Operation

The power mirror switch receives power through the battery supply voltage circuit and the OSRVM fuse. The power mirror switch also receives a constant ground.

The four positions of the direction switch have dual switch contacts. Each of the contacts are connected to opposing sides of the appropriate power mirror motors through the selector switch. The selector switch interrupts or completes these circuits depending on the position of the selector switch (L or R).

If the selector switch is placed in the L position and the up switch is depressed, battery voltage will be supplied to the left outside power mirror vertical motor through the left mirror motor up direction circuit and return to the power mirror switch through the mirror motor common circuit then to ground and the mirror will move up. If the down switch is depressed, the common circuit supplies battery voltage and the left mirror motor up direction circuit completes the path to the power mirror switch then to ground and the mirror will move down.

The remainder of the mirror functions operate in the same manner as described above. The thing to remember is, that by placing the power mirror switch in opposing positions (left/right or up/down) will reverse the polarity of the mirror motor, utilizing the same circuits and the power mirror will move accordingly.

Heated Mirror System Controls

The heated mirror system is activated by depressing the rear window defogger switch, which is part of the HVAC control module. For further information on the rear window defogger operation, refer to Rear Window Defogger Description and Operation.

Heated Mirror System Operation

The heated mirror system operates in parallel to the rear window defogger. Each outside rearview mirror contains a heating element that is connected to a constant ground source. When the rear window defogger system is active, battery voltage is available to the outside rearview mirrors through the heated mirror supply voltage circuit. The mirrors will heat up to remove ice, snow or frost and will automatically deactivate when the rear defogger system has timed out, approximately 10 minutes.

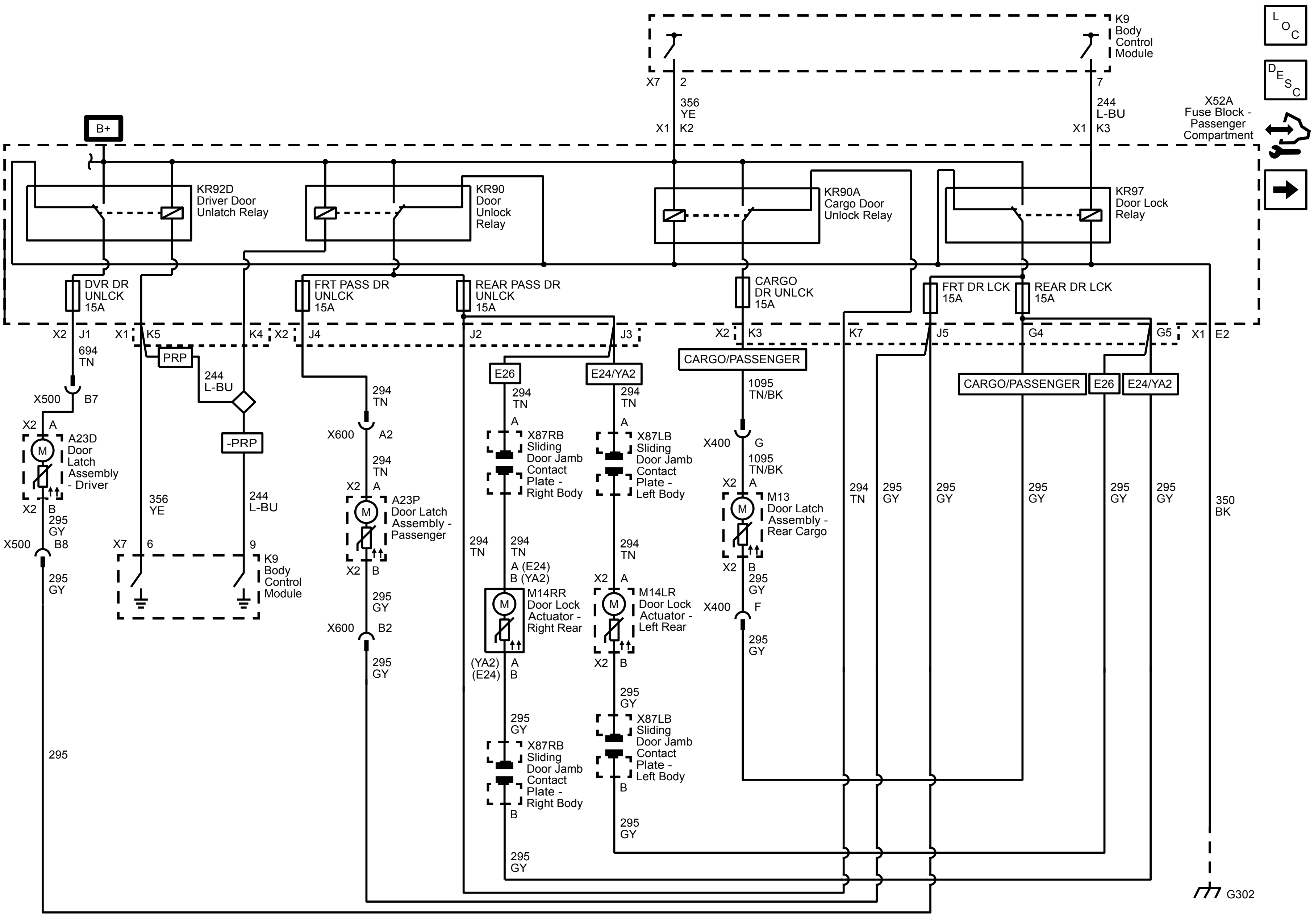
Body Systems

Vehicle Access

Schematic and Routing Diagrams

Door Lock/Indicator Schematics

Lock/Unlock Control (1 of 2)


K9 Body Control Module
L O C
D E S C
X7 2
356 YE
X1 K2
7
244 L-BU
X1 K3
X52A Fuse Block - Passenger Compartment
B+
KR92D Driver Door Unlatch Relay
KR90 Door Unlock Relay
KR90A Cargo Door Unlock Relay
KR97 Door Lock Relay
DVR DR UNLCK 15A
FRT PASS DR UNLCK 15A
REAR PASS DR UNLCK 15A
CARGO DR UNLCK 15A
FRT DR LCK 15A
REAR DR LCK 15A
X2 J1
X1 K5
K4 X2 J4
J2
J3
X2 K3
K7
J5
G4
G5 X1 E2
694 TN
X500 B7
PRP
244 L-BU
-PRP
X2 A
A23D Door Latch Assembly - Driver
M
X2 B
295 GY
X500 B8
295 GY
295
356 YE
244 L-BU
X7 6
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K9 Body Control Module
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294 TN
X2 A
A23P Door Latch Assembly - Passenger
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E24/YA2
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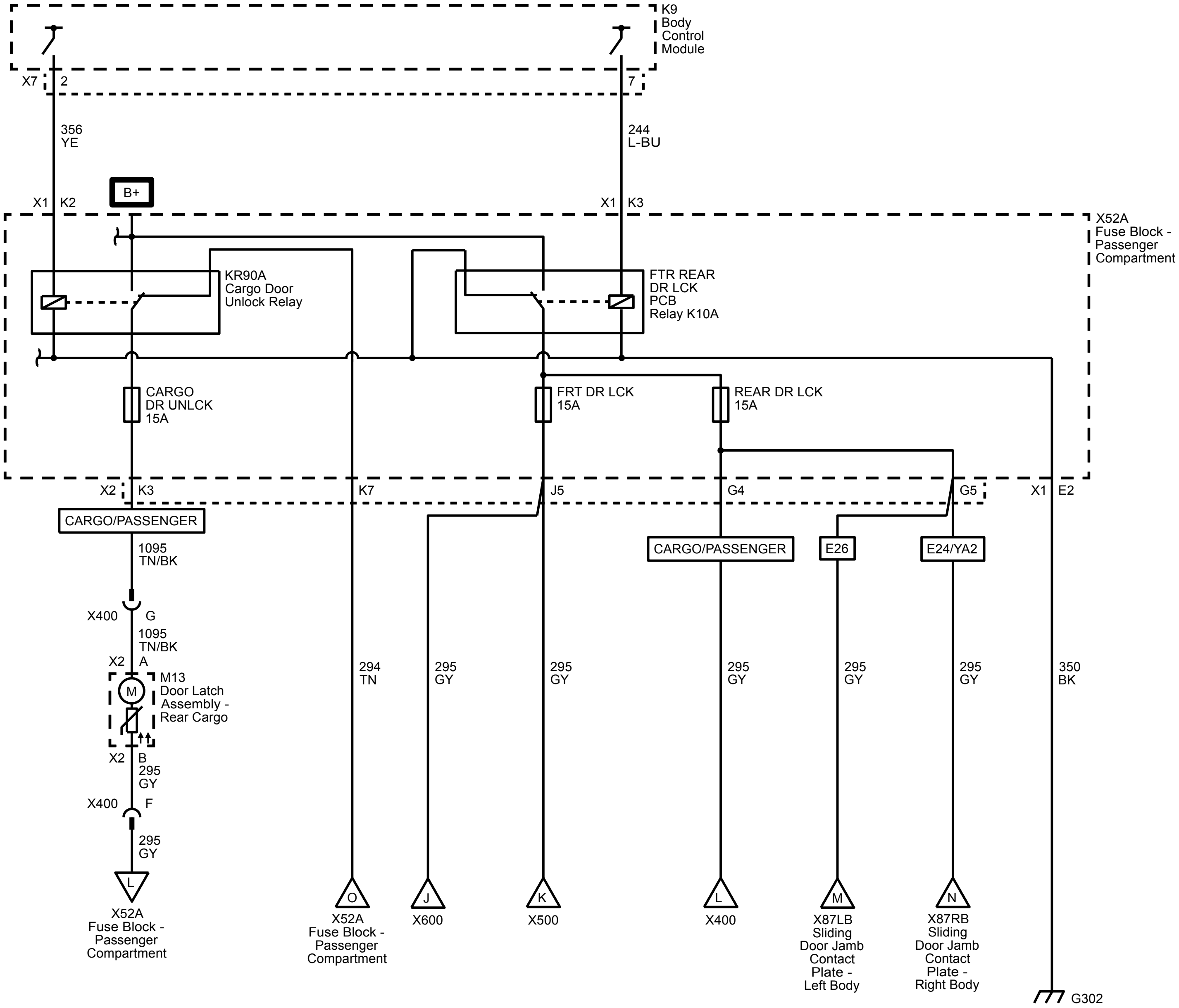
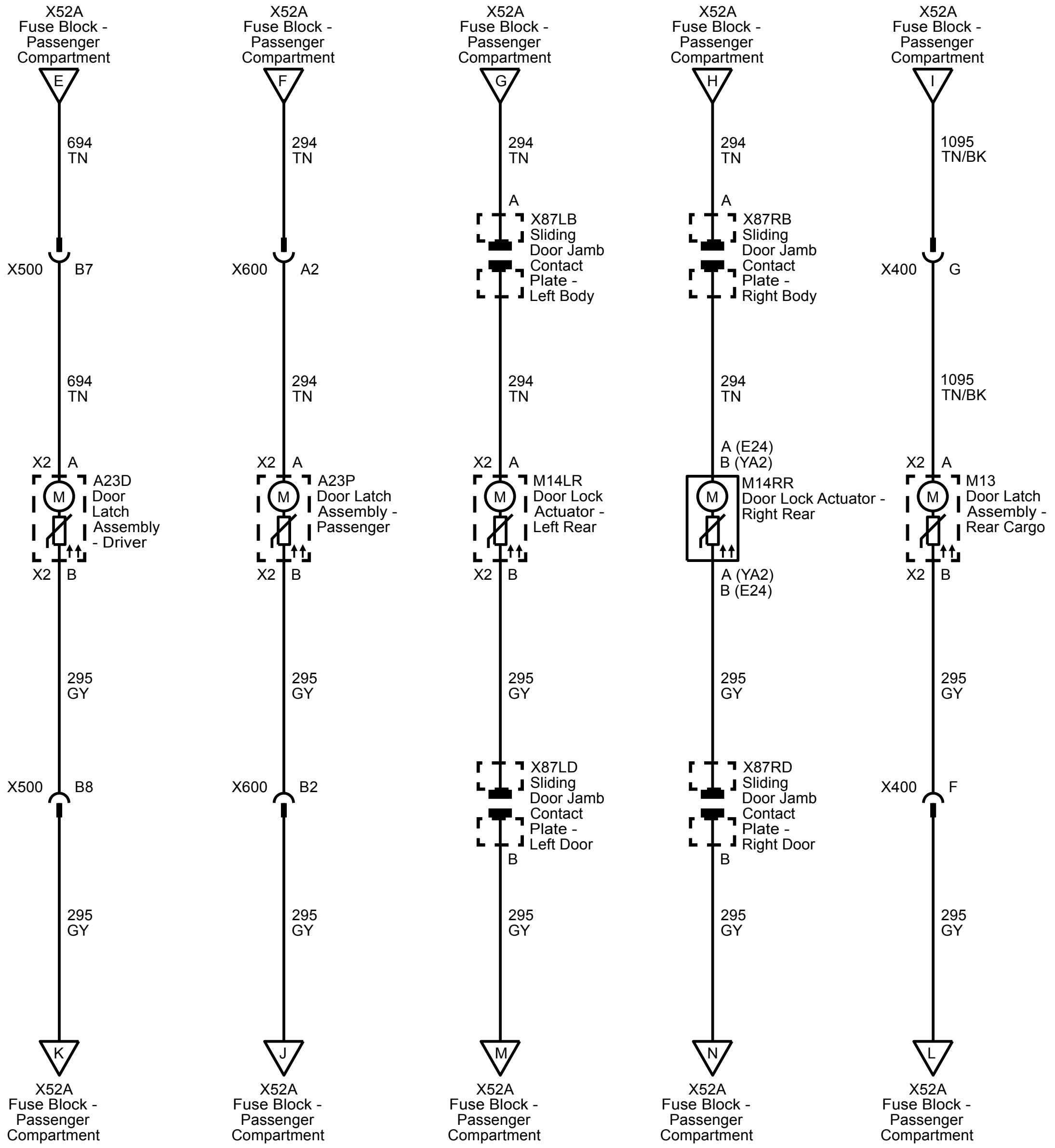
A (E24)
B (YA2)
M14RR Door Lock Actuator - Right Rear
(YA2) A
(E24) B
295 GY
X87RB Sliding Door Jamb Contact Plate - Right Body
B
295 GY
294 TN
A
X87LB Sliding Door Jamb Contact Plate - Left Body
294 TN
X2 A
M14LR Door Lock Actuator - Left Rear
X2 B
295 GY
X87LB Sliding Door Jamb Contact Plate - Left Body
B
295 GY
CARGO/PASSENGER
1095 TN/BK
X400 G
1095 TN/BK
X2 A
M13 Door Latch Assembly - Rear Cargo
X2 B
295 GY
X400 F
295 GY
CARGO/PASSENGER
E26
E24/YA2
294 TN
295 GY
295 GY
295 GY
295 GY
295 GY
350 BK
G302

Lock/Unlock Control (2 of 2)

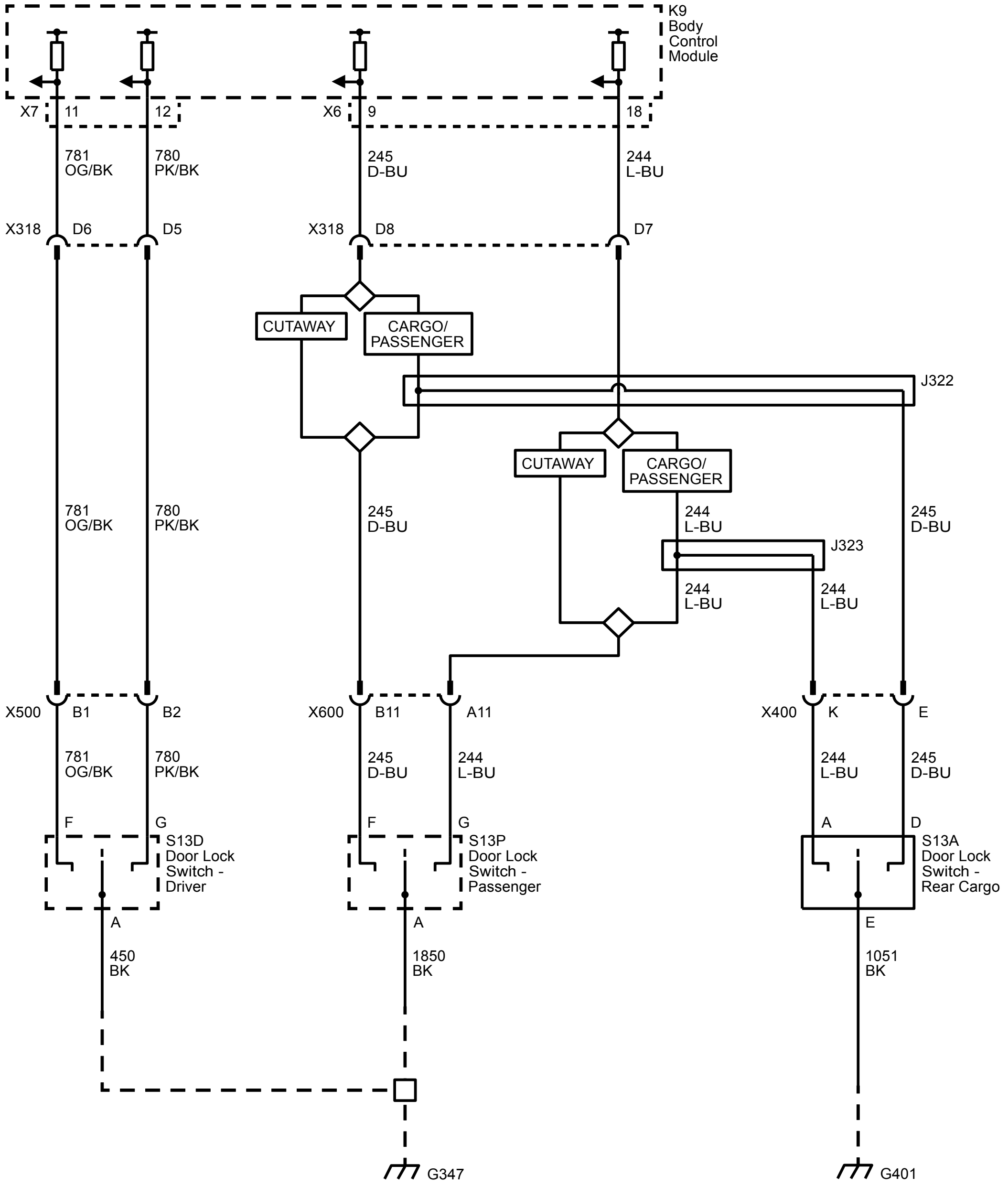
LOC
DESC


K9
Body
Control
Module
X7
2
7
356
YE
244
L-BU
B+
X1
K2
X1
K3
X52A
Fuse Block -
Passenger
Compartment
KR90A
Cargo Door
Unlock Relay
FTR REAR
DR LCK
PCB
Relay K10A
CARGO
DR UNLCK
15A
FRT DR LCK
15A
REAR DR LCK
15A
X2
K3
K7
J5
G4
G5
X1
E2
CARGO/PASSENGER
CARGO/PASSENGER
E26
E24/YA2
1095
TN/BK
X400
G
1095
TN/BK
X2
A
M
M13
Door Latch
Assembly -
Rear Cargo
X2
B
295
GY
X400
F
295
GY
294
TN
295
GY
295
GY
295
GY
295
GY
295
GY
350
BK
L
X52A
Fuse Block -
Passenger
Compartment
O
X52A
Fuse Block -
Passenger
Compartment
J
X600
K
X500
L
X400
M
X87LB
Sliding
Door Jamb
Contact
Plate -
Left Body
N
X87RB
Sliding
Door Jamb
Contact
Plate -
Right Body
G302

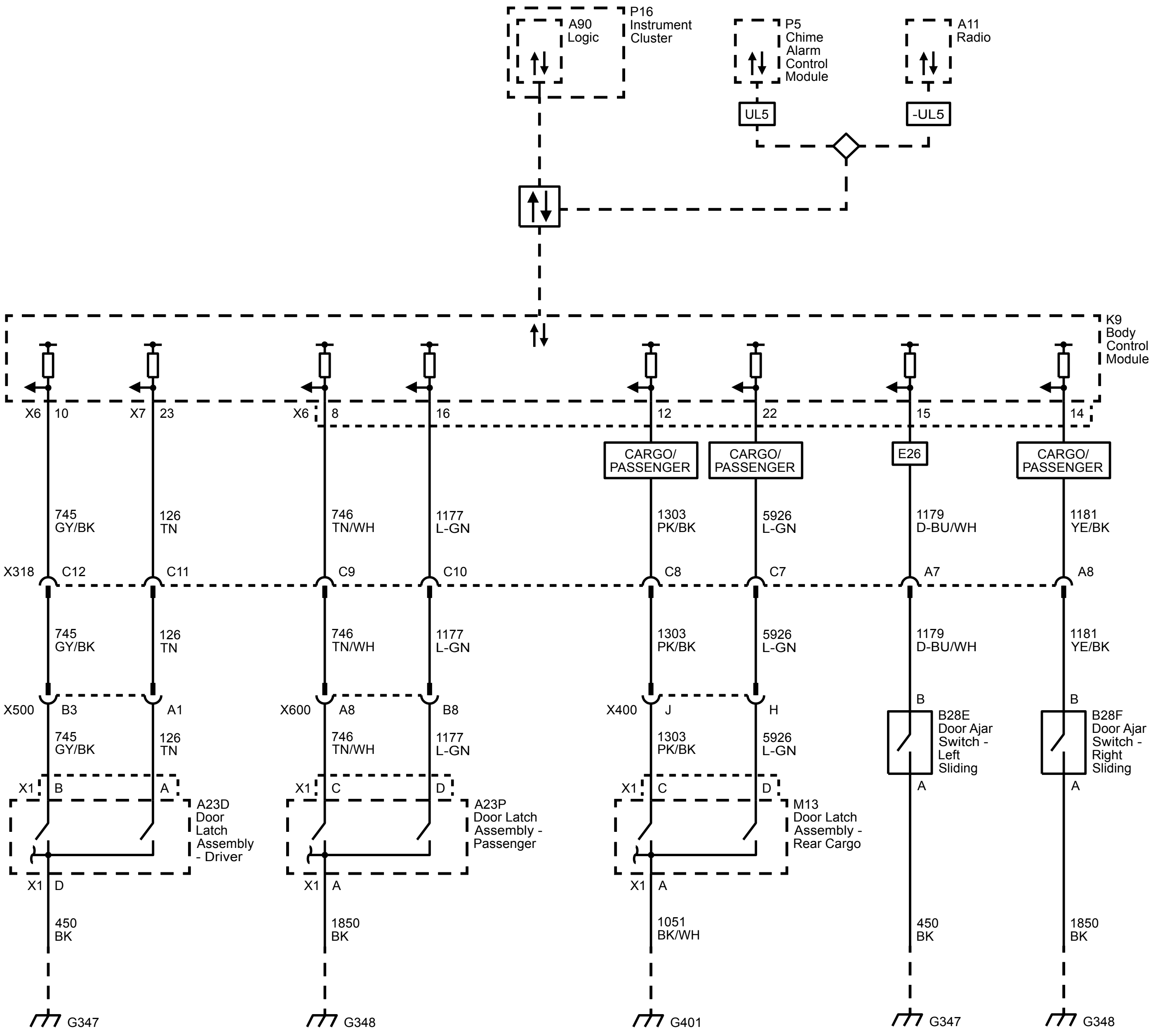
Door Latches and Actuators


X52A
Fuse Block -
Passenger
Compartment
E
694
TN
X500
B7
694
TN
X2
A
A23D
Door
Latch
Assembly
- Driver
M
X2
B
295
GY
X500
B8
295
GY
K
X52A
Fuse Block -
Passenger
Compartment
X52A
Fuse Block -
Passenger
Compartment
F
294
TN
X600
A2
294
TN
X2
A
A23P
Door Latch
Assembly -
Passenger
X2
B
295
GY
X600
B2
295
GY
J
X52A
Fuse Block -
Passenger
Compartment
X52A
Fuse Block -
Passenger
Compartment
G
294
TN
A
X87LB
Sliding
Door Jamb
Contact
Plate -
Left Body
294
TN
X2
A
M14LR
Door Lock
Actuator -
Left Rear
X2
B
295
GY
X87LD
Sliding
Door Jamb
Contact
Plate -
Left Door
B
295
GY
M
X52A
Fuse Block -
Passenger
Compartment
X52A
Fuse Block -
Passenger
Compartment
H
294
TN
A
X87RB
Sliding
Door Jamb
Contact
Plate -
Right Body
294
TN
A (E24)
B (YA2)
M14RR
Door Lock Actuator -
Right Rear
A (YA2)
B (E24)
295
GY
X87RD
Sliding
Door Jamb
Contact
Plate -
Right Door
B
295
GY
N
X52A
Fuse Block -
Passenger
Compartment
X52A
Fuse Block -
Passenger
Compartment
I
1095
TN/BK
X400
G
1095
TN/BK
X2
A
M13
Door Latch
Assembly -
Rear Cargo
X2
B
295
GY
X400
F
295
GY
L
X52A
Fuse Block -
Passenger
Compartment

Door Lock Switches

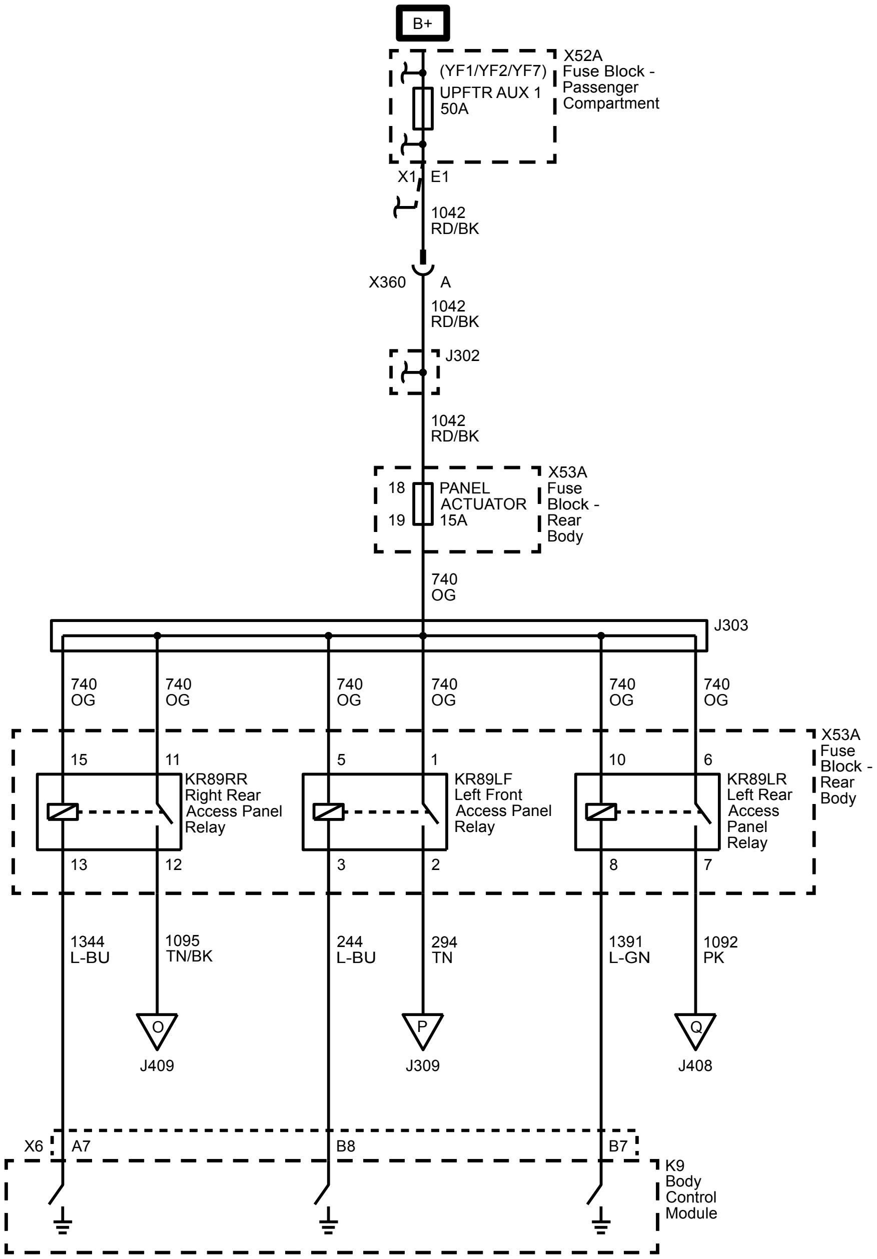

K9
Body
Control
Module
X7
11
12
X6
9
18
781
OG/BK
780
PK/BK
245
D-BU
244
L-BU
X318
D6
D5
X318
D8
D7
CUTAWAY
CARGO/
PASSENGER
J322
CUTAWAY
CARGO/
PASSENGER
781
OG/BK
780
PK/BK
245
D-BU
244
L-BU
J323
244
L-BU
244
L-BU
245
D-BU
X500
B1
B2
X600
B11
A11
X400
K
E
781
OG/BK
780
PK/BK
245
D-BU
244
L-BU
244
L-BU
245
D-BU
F
G
S13D
Door Lock
Switch -
Driver
F
G
S13P
Door Lock
Switch -
Passenger
A
D
S13A
Door Lock
Switch -
Rear Cargo
A
450
BK
A
1850
BK
E
1051
BK
G347
G401

Door Ajar Switches

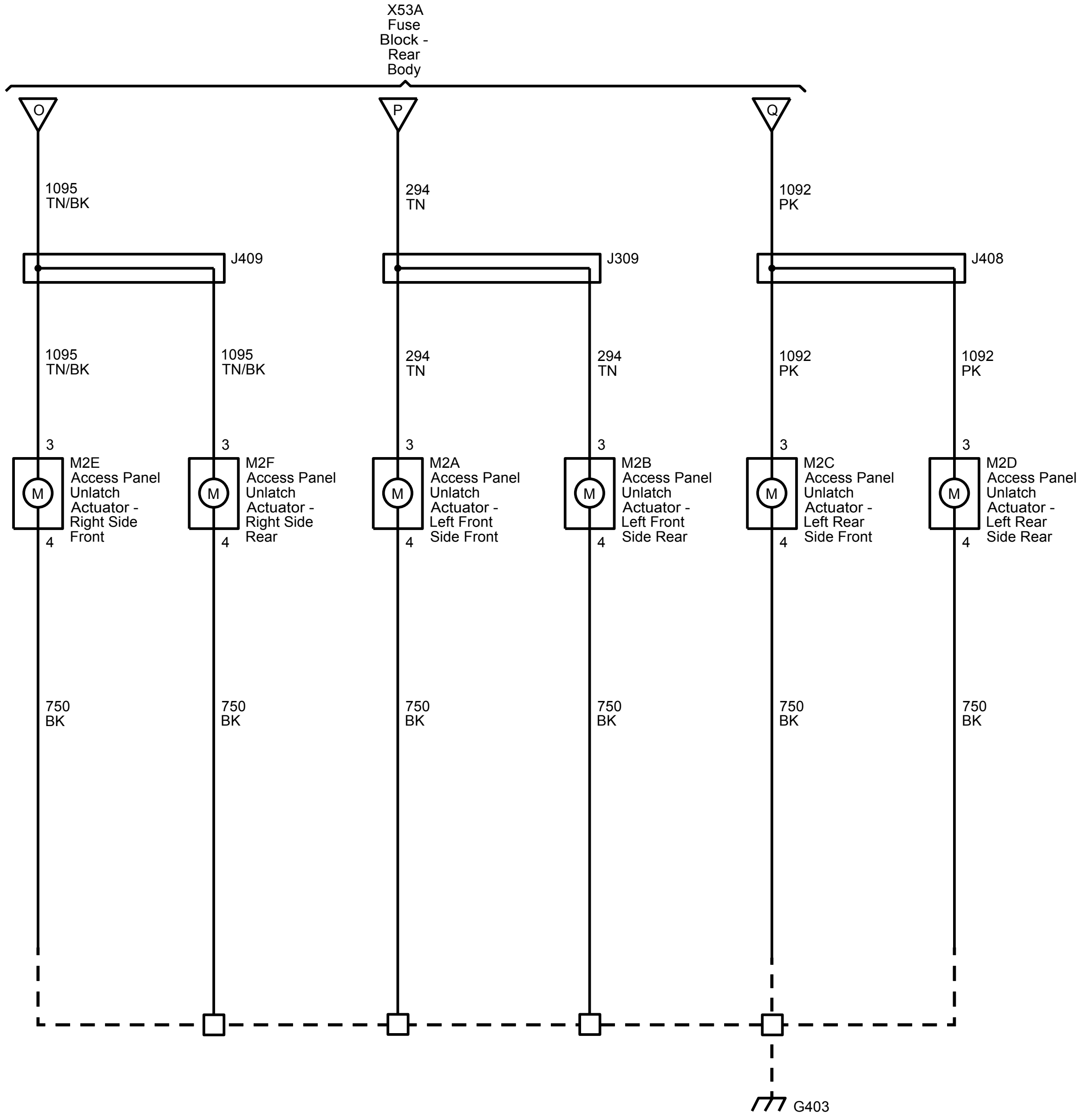

A90 Logic
P16 Instrument Cluster
P5 Chime Alarm Control Module
A11 Radio
UL5
-UL5
K9 Body Control Module
X6 10
X7 23
X6 8
16
12
22
15
14
CARGO/ PASSENGER
CARGO/ PASSENGER
E26
CARGO/ PASSENGER
745 GY/BK
126 TN
746 TN/WH
1177 L-GN
1303 PK/BK
5926 L-GN
1179 D-BU/WH
1181 YE/BK
X318
C12
C11
C9
C10
C8
C7
A7
A8
745 GY/BK
126 TN
746 TN/WH
1177 L-GN
1303 PK/BK
5926 L-GN
1179 D-BU/WH
1181 YE/BK
X500 B3
A1
X600 A8
B8
X400 J
H
B
B28E Door Ajar Switch - Left Sliding
A
B
B28F Door Ajar Switch - Right Sliding
A
745 GY/BK
126 TN
746 TN/WH
1177 L-GN
1303 PK/BK
5926 L-GN
X1 B
A
A23D Door Latch Assembly - Driver
X1 C
D
A23P Door Latch Assembly - Passenger
X1 C
D
M13 Door Latch Assembly - Rear Cargo
X1 D
X1 A
X1 A
450 BK
1850 BK
1051 BK/WH
450 BK
1850 BK
G347
G348
G401
G347
G348

Release Systems Schematics

Access Panel Relay Control


B+
X52A
Fuse Block -
Passenger
Compartment
(YF1/YF2/YF7)
UPFTR AUX 1
50A
X1
E1
1042
RD/BK
X360
A
1042
RD/BK
J302
1042
RD/BK
X53A
Fuse
Block -
Rear
Body
18
19
PANEL
ACTUATOR
15A
740
OG
J303
740
OG
740
OG
740
OG
740
OG
740
OG
740
OG
X53A
Fuse
Block -
Rear
Body
15
11
KR89RR
Right Rear
Access Panel
Relay
13
12
5
1
KR89LF
Left Front
Access Panel
Relay
3
2
10
6
KR89LR
Left Rear
Access
Panel
Relay
8
7
1344
L-BU
1095
TN/BK
244
L-BU
294
TN
1391
L-GN
1092
PK
O
J409
P
J309
Q
J408
X6
A7
B8
B7
K9
Body
Control
Module

Access Panel Actuators


X53A
Fuse
Block -
Rear
Body
O
P
Q
1095
TN/BK
294
TN
1092
PK
J409
J309
J408
1095
TN/BK
1095
TN/BK
294
TN
294
TN
1092
PK
1092
PK
3
M
4
M2E
Access Panel
Unlatch
Actuator -
Right Side
Front
M2F
Access Panel
Unlatch
Actuator -
Right Side
Rear
M2A
Access Panel
Unlatch
Actuator -
Left Front
Side Front
M2B
Access Panel
Unlatch
Actuator -
Left Front
Side Rear
M2C
Access Panel
Unlatch
Actuator -
Left Rear
Side Front
M2D
Access Panel
Unlatch
Actuator -
Left Rear
Side Rear
750
BK
G403

Description and Operation

Door Ajar Indicator Description and Operation

Door Ajar Indicator System Components

The door ajar indicator system consists of the following components:

- The body control module (BCM)
- The instrument panel cluster (IPC)
- The driver information center (DIC)
- The door ajar switch

Door Ajar Operation

The body control module (BCM) receives a discrete input from the door ajar switch to indicate the status of the door. The BCM then communicates this status to the instrument panel cluster (IPC) via GMLAN serial data. The IPC, upon receipt of this message, will illuminate the door ajar message in the driver information center (DIC) and also send a GMLAN serial data message to the radio to activate the door ajar audible warning when the following conditions are met:

- The transmission is shifted out of PARK.
- The vehicle speed is greater than 8 km/h (5 mph).

Power Door Locks Description and Operation

Door Lock System Components

The power door lock system consists of the following components:

- Driver door lock switch
- Front passenger door lock switch
- Rear cargo door lock switch
- Door lock relay
- Passenger door unlock relay
- Driver door unlock relay
- Cargo door unlock relay
- Body Control Module (BCM)
- Reversible door lock actuators in each of the doors
- DRV LKS 10A fuse, driver door unlock relay supply voltage
- CARGO UNLK 10A fuse, cargo door unlock relay supply voltage
- DOOR LKS 20A fuse, door lock relay and passenger door unlock relay supply voltage

Door Lock System Controls

The power door lock system can be controlled by any of the following:

- A power door lock or unlock switch activation
- A keyless entry transmission
- A lock out prevention function
- A last door locking function

Driver, Passenger and Cargo Door Lock Operation

When any of the door lock switches are placed in the lock position, a ground signal is applied to the BCM through the door lock signal circuit. Upon receiveing this signal, the BCM grounds the control side of the door lock relay through the door lock relay control circuit. Since the other side of the door lock relay winding is connected to battery voltage, the relay is energized. This causes the contacts to close and complete the path from the DOOR LKS fuse through the battery voltage circuit. Voltage is then applied to the lock side of the door lock actuators through the door lock actuator lock circuits. Since the other side of the all the door lock actuators are connected to the normally closed contacts of their respective unlock relays to ground, the doors lock.

The lock function can also be accomplished by the BCM supplying ground to the door lock relay control circuit by either of the following:

- A keyless entry lock transmission
- A last door lock function

Driver Door Unlock Operation

When any of the door lock switches are placed in the unlock position, a ground signal is applied to the BCM through the door unlock signal circuit. Upon receiveing this signal, the BCM grounds the control side of the driver door unlock relay through the driver door unlock relay control circuit. Since the other side of the driver door unlock relay winding is connected to battery voltage, the relay is energized. This causes the contacts to close and complete the path from the DRV LKS fuse through the battery voltage circuit. Voltage is then applied to the unlock side of the driver door lock actuator through the driver door lock actuator unlock control circuit. Since the other side of the the driver door lock actuator is connected to the normally closed contacts of the door lock relay to ground, the driver door unlocks.

The driver door unlock function can also be accomplished by the BCM supplying ground to the driver door unlock relay control circuit by either of the following:

- A keyless entry unlock transmission
- A lock out prevention function

Passenger Door Unlock Operation

When any of the door lock switches are placed in the unlock position, a ground signal is applied to the BCM through the door unlock signal circuit. Upon receiveing this signal, the BCM grounds the control side of the passenger door unlock relay through the door unlock relay control circuit. Since the other side of the door unlock relay winding is connected to battery voltage, the relay is energized. This causes the contacts to close and complete the path from the DOOR LKS fuse through the battery voltage circuit. Voltage is then applied to the unlock side of the passenger door lock actuators through the door lock actuator unlock control circuits. Since the other side of the the door lock actuators are connected to the normally closed contacts of the door lock relay to ground, the passenger doors unlock.

The door unlock function can also be accomplished by the BCM supplying ground to the passenger door unlock relay control circuit during a keyless entry unlock transmission.

Cargo Door Unlock Operation

When any of the door lock switches are placed in the unlock position, a ground signal is applied to the BCM through the door unlock signal circuit. Upon receiveing this signal, the BCM grounds the control side of the cargo door unlock relay through the cargo door unlock relay control circuit. Since the other side of the cargo door unlock relay winding is connected to battery voltage, the relay is energized. This causes the contacts to close and complete the path from the CARGO UNLK fuse through the battery voltage circuit. Voltage is then applied to the unlock side of the cargo door lock actuator through the door lock actuator unlock control circuit. Since the other side of the the cargo door lock actuator is connected to the normally closed contacts of the door lock relay to ground, the cargo door unlocks.

The cargo door unlock function can also be accomplished by the BCM supplying ground to the cargo door unlock relay control circuit during a keyless entry unlock transmission.

Delay Locking Operation

This feature allows the operator to lock all the doors from a door lock switch with the side doors(s) open. The side cargo doors have contact plates that complete the power door lock and unlock control circuits, among others, when the side cargo doors are closed, and interrupt these circuits when the doors are open. When a lock function occurs and the BCM senses an active state on any door ajar switch signal circuit the driver, front passenger and cargo doors will lock as described. The BCM continues to monitor door ajar switch signal circuits. When the BCM senses an inactive state, door closed, the BCM will cycle the door lock relay again after approximately 5 seconds to perform another lock function, thus locking the side cargo door(s).

Lockout Prevention

This feature prevents the locking of the driver door if the ignition key is left in the ignition lock cylinder. If a lock function occurs from any door lock switch and the BCM senses a door ajar and the key in ignition switch signal circuit is in the yes state, the BCM will cycle the door lock relay to lock the doors and then cycle the driver door unlock relay to unlock the driver door.

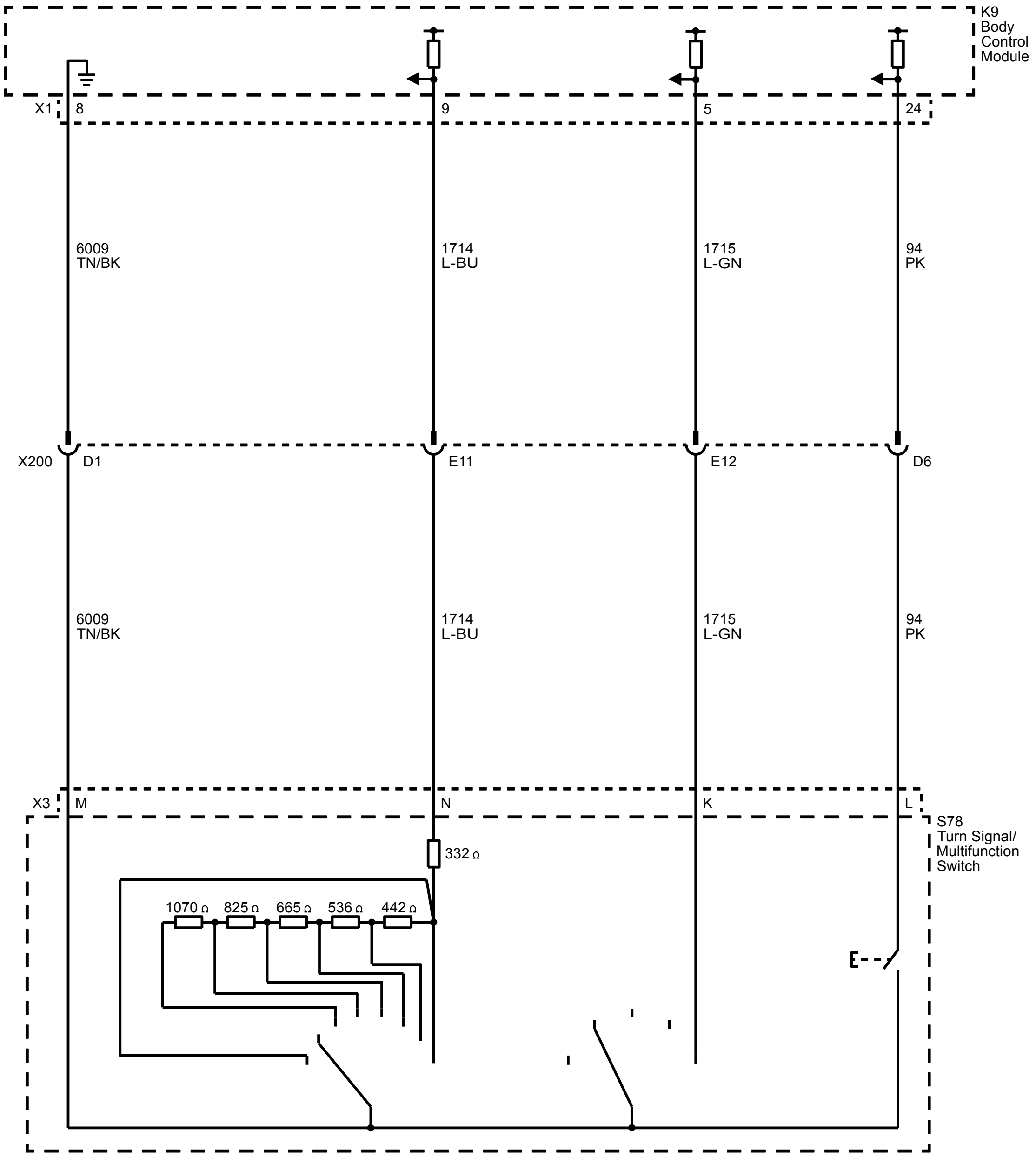
Body Systems

Wipers and Washers

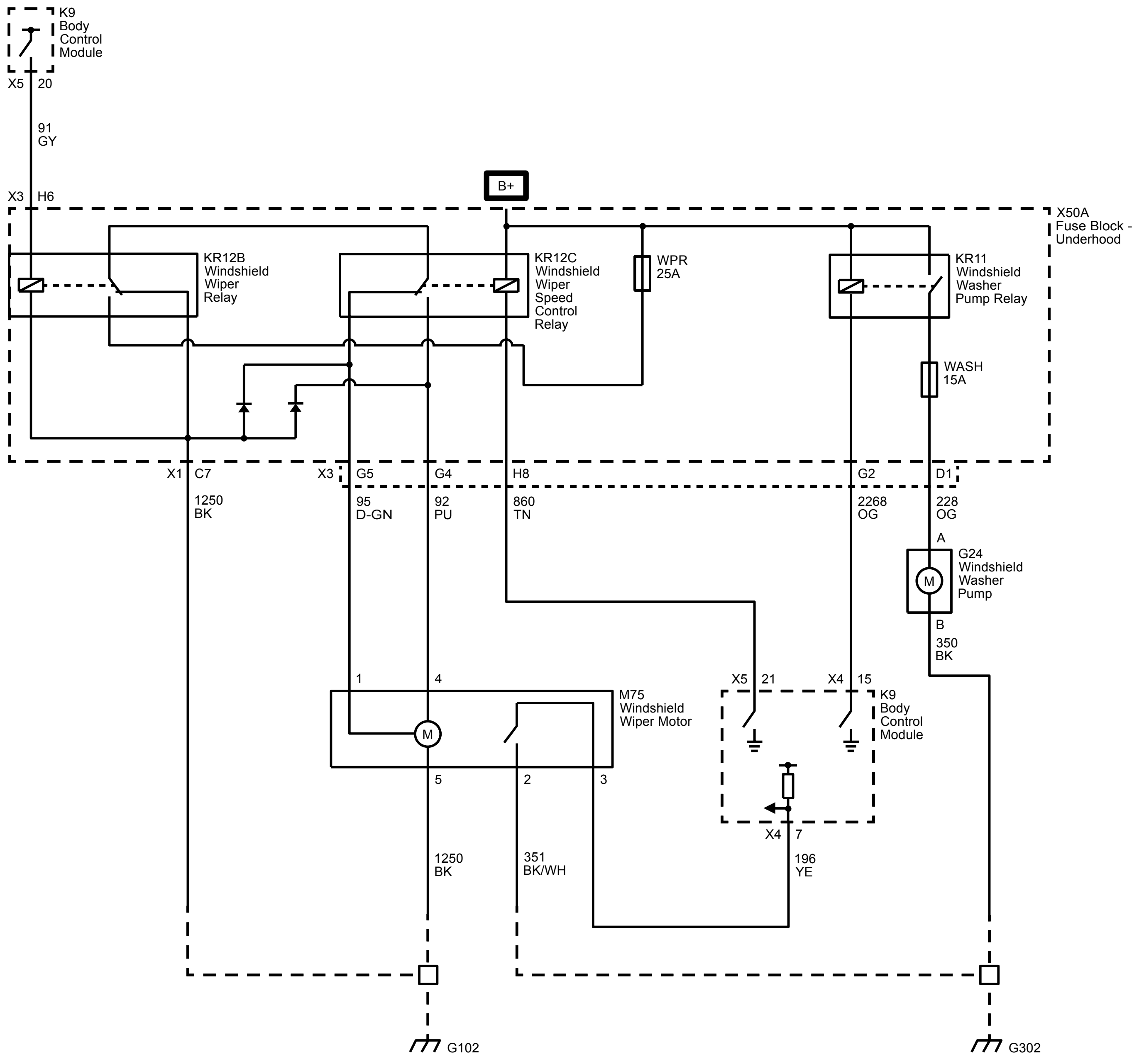
Schematic and Routing Diagrams

Wiper/Washer Schematics

Wiper Controls


K9
Body
Control
Module
X1
8
9
5
24
6009
TN/BK
1714
L-BU
1715
L-GN
94
PK
X200
D1
E11
E12
D6
6009
TN/BK
1714
L-BU
1715
L-GN
94
PK
X3
M
N
K
L
S78
Turn Signal/
Multifunction
Switch
332 Ω
1070 Ω
825 Ω
665 Ω
536 Ω
442 Ω

Wiper and Washer Motor Control


K9
Body
Control
Module
X5 20
91
GY
B+
X3 H6
X50A
Fuse Block -
Underhood
KR12B
Windshield
Wiper
Relay
KR12C
Windshield
Wiper
Speed
Control
Relay
WPR
25A
KR11
Windshield
Washer
Pump Relay
WASH
15A
X1 C7
X3 G5
G4
H8
G2
D1
1250
BK
95
D-GN
92
PU
860
TN
2268
OG
228
OG
A
G24
Windshield
Washer
Pump
M
B
350
BK
1
4
M75
Windshield
Wiper Motor
M
5
2
3
X5 21
X4 15
K9
Body
Control
Module
X4 7
1250
BK
351
BK/WH
196
YE
G102
G302

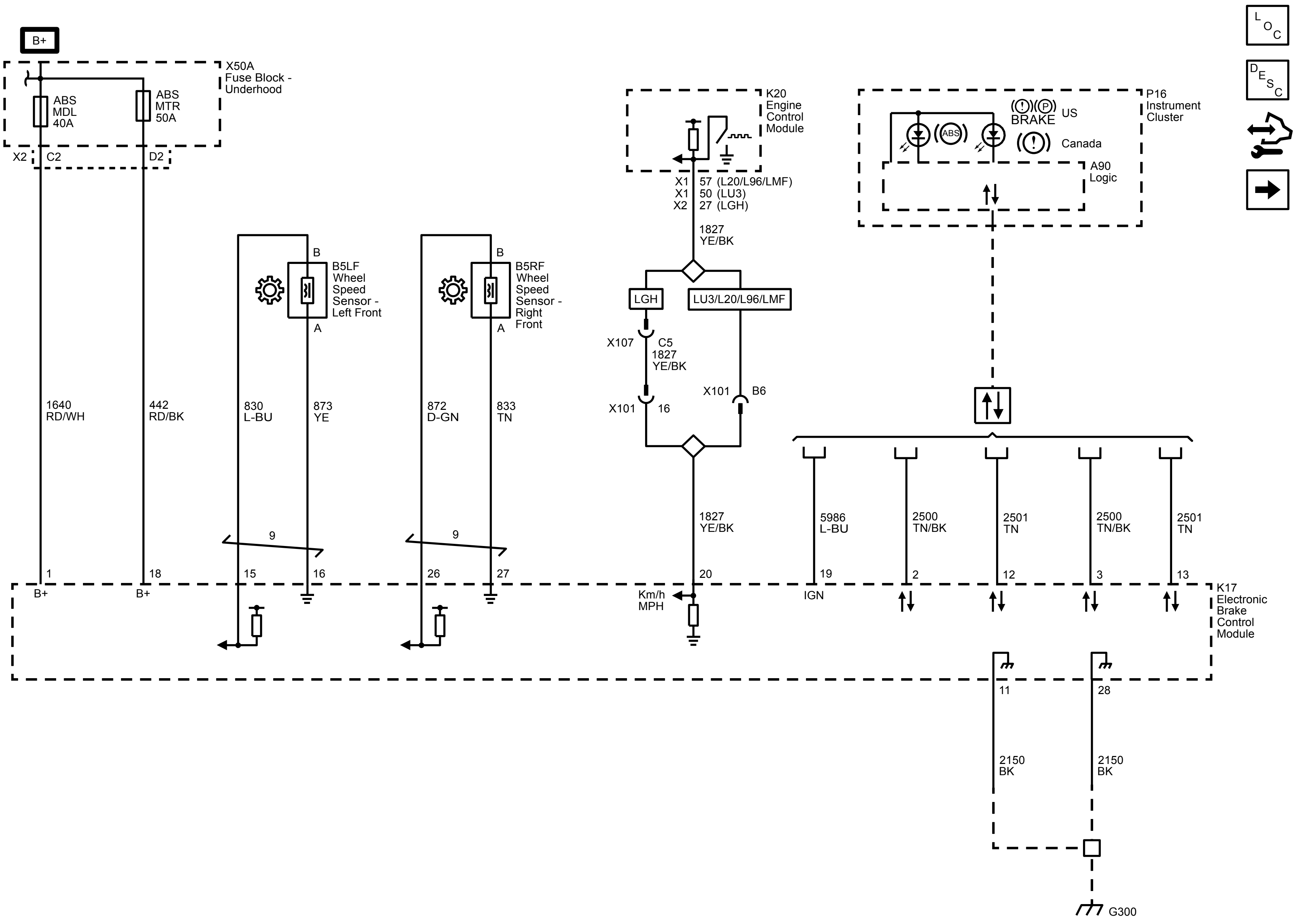
Brakes

Antilock Brake System

Schematic and Routing Diagrams

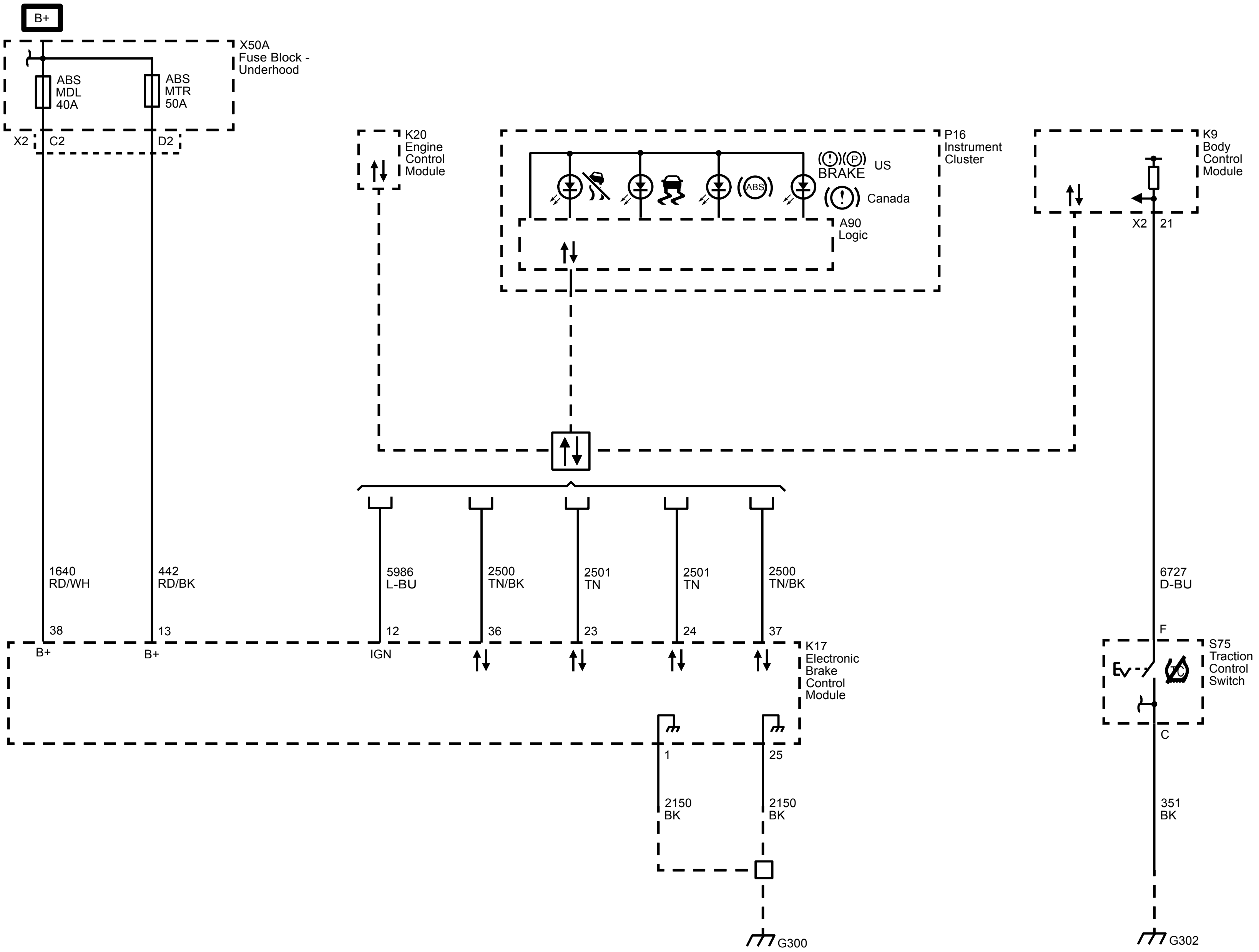
Antilock Brake System Schematics

Power, Ground, Serial Data, Speed Signals and Indicators (JL9)

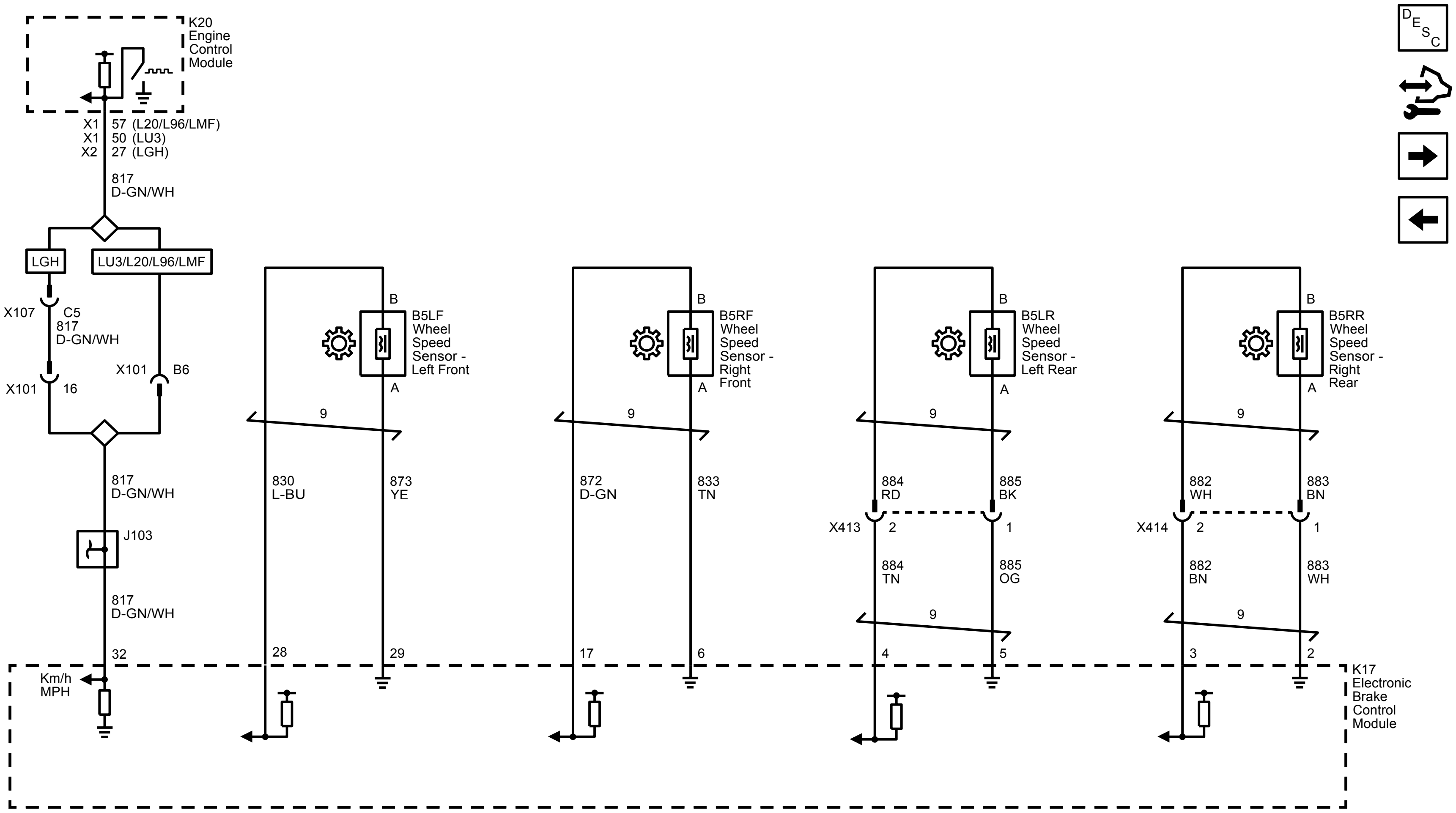


B+
X50A
Fuse Block - Underhood
ABS MDL 40A
ABS MTR 50A
X2
C2
D2
1640 RD/WH
442 RD/BK
B5LF Wheel Speed Sensor - Left Front
B
A
830 L-BU
873 YE
9
B5RF Wheel Speed Sensor - Right Front
872 D-GN
833 TN
K20 Engine Control Module
X1 57 (L20/L96/LMF)
X1 50 (LU3)
X2 27 (LGH)
1827 YE/BK
LGH
LU3/L20/L96/LMF
X107
C5
1827 YE/BK
X101
16
X101
B6
1827 YE/BK
P16 Instrument Cluster
ABS
BRAKE
US
Canada
A90 Logic
5986 L-BU
2500 TN/BK
2501 TN
2500 TN/BK
2501 TN
1
18
15
16
26
27
20
19
2
12
3
13
B+
B+
Km/h MPH
IGN
K17 Electronic Brake Control Module
11
28
2150 BK
2150 BK
G300
L O C
D E S C

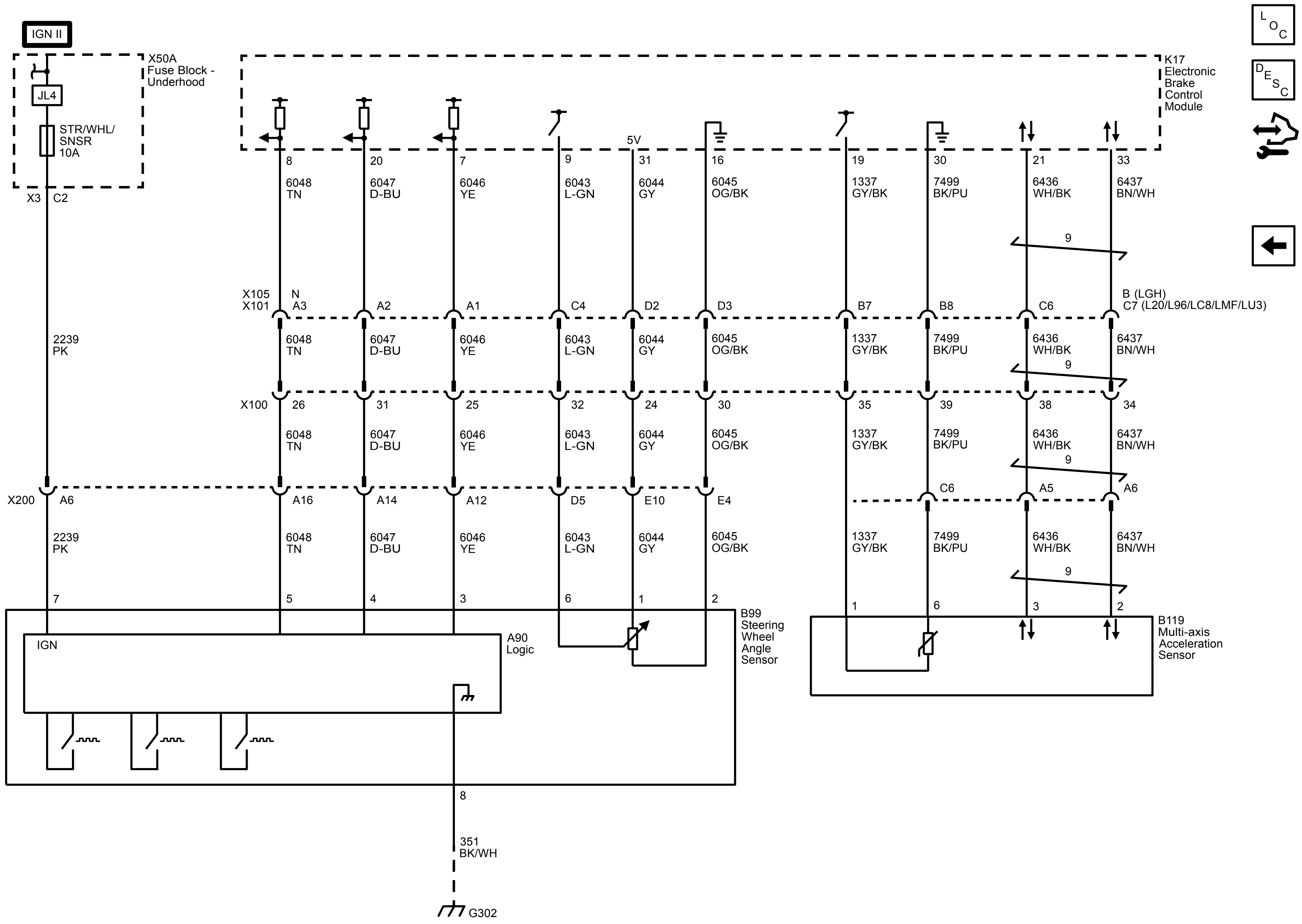
Power, Ground, Serial Data, Indicators and Traction Control Switch (JL4)


B+
X50A Fuse Block - Underhood
ABS MDL 40A
ABS MTR 50A
X2
C2
D2
K20 Engine Control Module
P16 Instrument Cluster
BRAKE
US
Canada
ABS
A90 Logic
K9 Body Control Module
X2
21
1640 RD/WH
442 RD/BK
5986 L-BU
2500 TN/BK
2501 TN
2501 TN
2500 TN/BK
6727 D-BU
38
13
12
36
23
24
37
B+
B+
IGN
K17 Electronic Brake Control Module
1
25
2150 BK
2150 BK
G300
F
S75 Traction Control Switch
TC
C
351 BK
G302

Speed Signals (JL4)


K20
Engine
Control
Module
X1 57 (L20/L96/LMF)
X1 50 (LU3)
X2 27 (LGH)
817
D-GN/WH
LGH
LU3/L20/L96/LMF
X107
C5
817
D-GN/WH
X101
B6
X101
16
817
D-GN/WH
J103
817
D-GN/WH
32
Km/h
MPH
B
B5LF
Wheel
Speed
Sensor -
Left Front
A
9
830
L-BU
873
YE
28
29
B
B5RF
Wheel
Speed
Sensor -
Right
Front
A
9
872
D-GN
833
TN
17
6
B
B5LR
Wheel
Speed
Sensor -
Left Rear
A
9
884
RD
885
BK
X413
2
1
884
TN
885
OG
9
4
5
B
B5RR
Wheel
Speed
Sensor -
Right
Rear
A
9
882
WH
883
BN
X414
2
1
882
BN
883
WH
9
3
2
K17
Electronic
Brake
Control
Module

StabiliTrak Steering Wheel Position Inputs and Yaw and Lateral Accelerometer Sensor (JL4)


IGN II
X50A
Fuse Block - Underhood
JL4
STR/WHL/ SNSR 10A
X3 C2
2239 PK
K17
Electronic Brake Control Module
5V
8
6048 TN
20
6047 D-BU
7
6046 YE
9
6043 L-GN
31
6044 GY
16
6045 OG/BK
19
1337 GY/BK
30
7499 BK/PU
21
6436 WH/BK
33
6437 BN/WH
9
X105
X101
N
A3
A2
A1
C4
D2
D3
B7
B8
C6
B (LGH)
C7 (L20/L96/LC8/LMF/LU3)
X100
26
31
25
32
24
30
35
39
38
34
X200
A6
A16
A14
A12
D5
E10
E4
C6
A5
A6
7
5
4
3
6
1
2
B99
Steering Wheel Angle Sensor
A90
Logic
IGN
1
6
3
2
B119
Multi-axis Acceleration Sensor
8
351 BK/WH
G302
L O C
D E S C

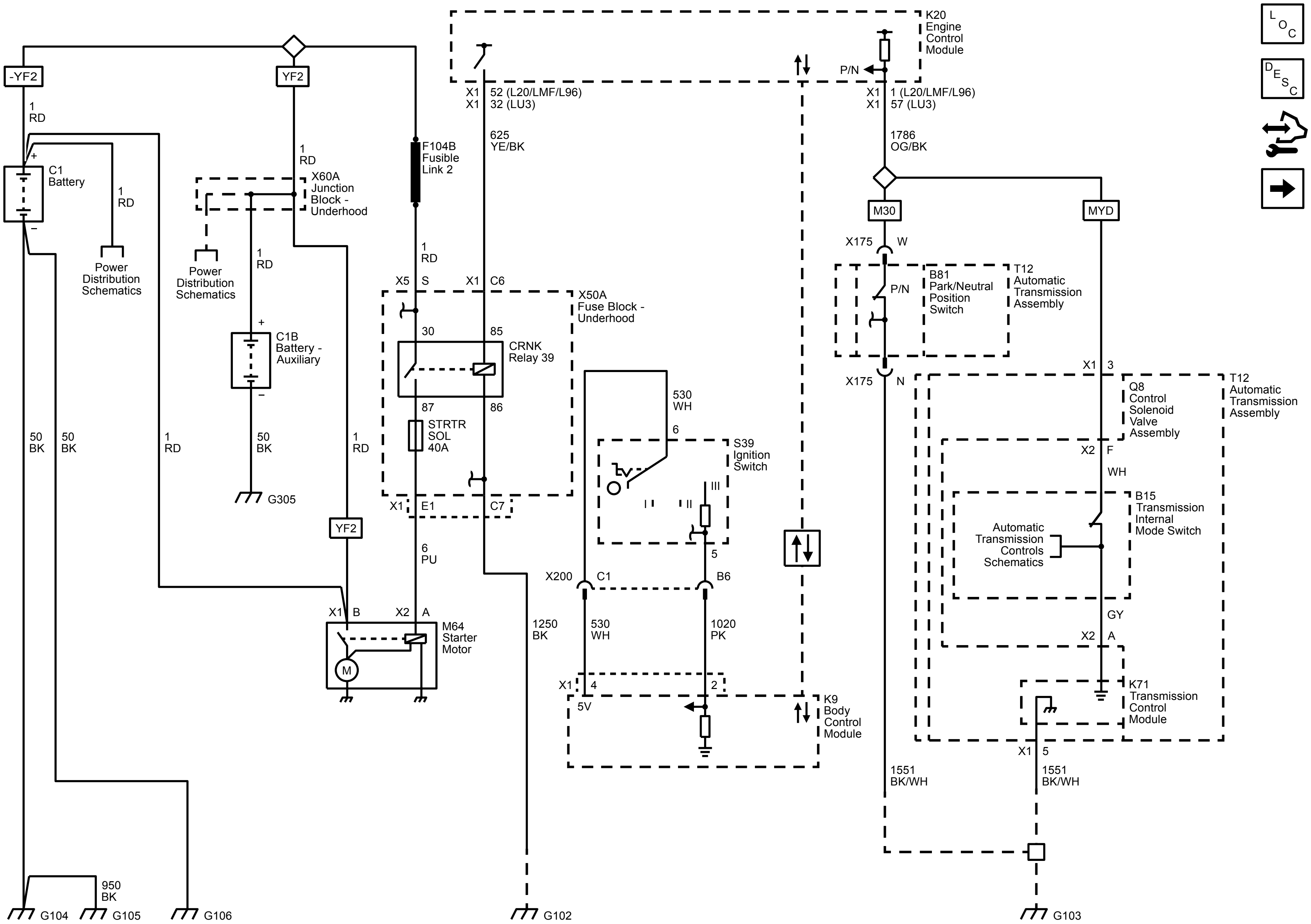
Engine/Propulsion

12 V Starting and Charging

Schematic and Routing Diagrams

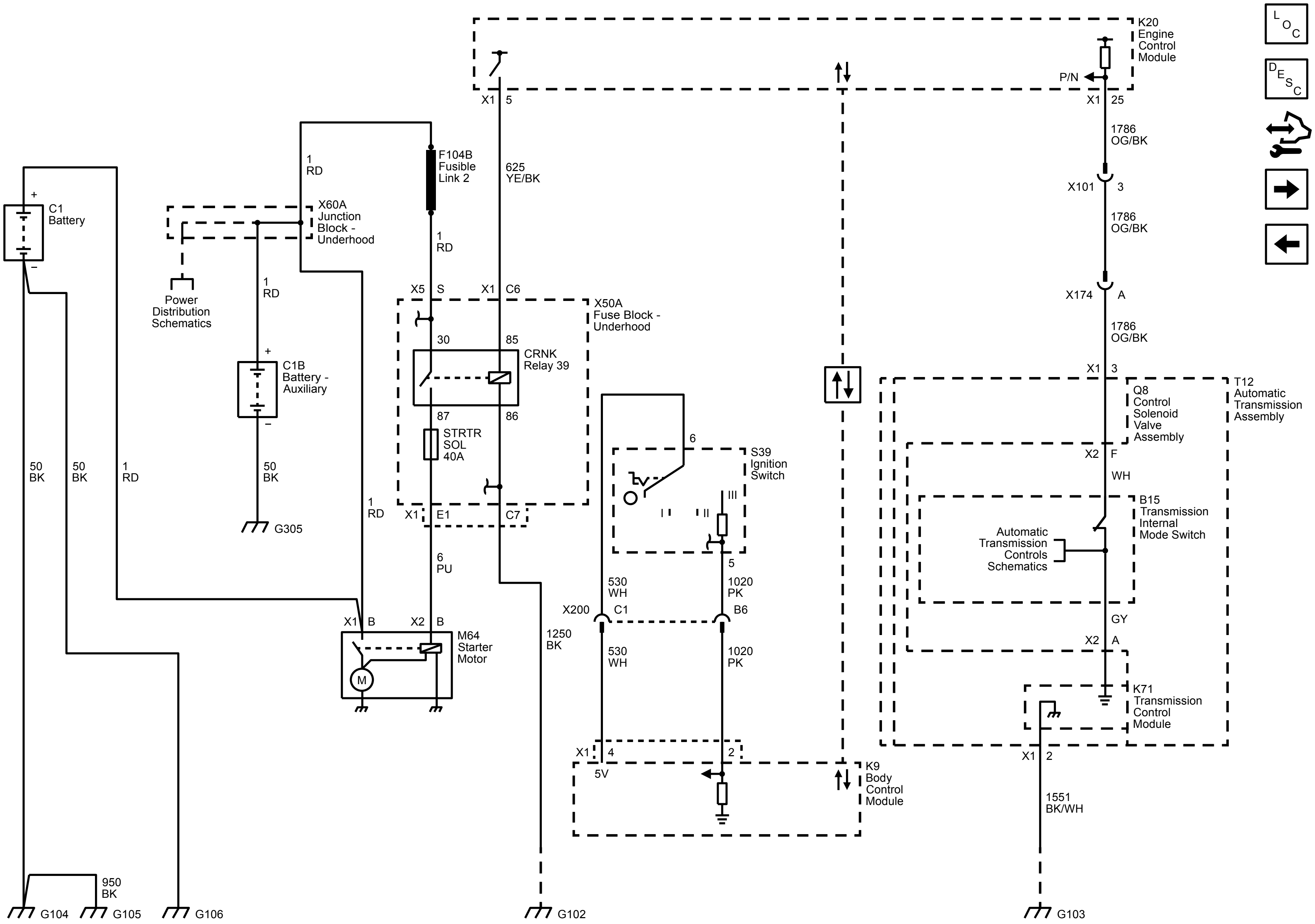
Starting and Charging Schematics

Starting System (Gas)



-YF2
YF2
1 RD
C1 Battery
+
-
1 RD
Power Distribution Schematics
1 RD
X60A Junction Block - Underhood
Power Distribution Schematics
1 RD
+
C1B Battery - Auxiliary
-
50 BK
G305
50 BK
50 BK
1 RD
1 RD
F104B Fusible Link 2
1 RD
YF2
X1 B
X2 A
M64 Starter Motor
M
950 BK
G104
G105
G106
K20 Engine Control Module
X1 52 (L20/LMF/L96)
X1 32 (LU3)
625 YE/BK
X5 S
X1 C6
X50A Fuse Block - Underhood
30
85
CRNK Relay 39
87
86
STRTR SOL 40A
X1 E1
C7
6 PU
1250 BK
G102
P/N
X1 1 (L20/LMF/L96)
X1 57 (LU3)
1786 OG/BK
M30
MYD
X175 W
P/N
B81 Park/Neutral Position Switch
T12 Automatic Transmission Assembly
X175 N
530 WH
6
S39 Ignition Switch
III
I
II
5
X200 C1
B6
530 WH
1020 PK
X1 4
2
5V
K9 Body Control Module
X1 3
T12 Automatic Transmission Assembly
Q8 Control Solenoid Valve Assembly
X2 F
WH
B15 Transmission Internal Mode Switch
Automatic Transmission Controls Schematics
GY
X2 A
K71 Transmission Control Module
X1 5
1551 BK/WH
1551 BK/WH
G103

Starting System (Diesel)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OG/BK
X101 3
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OG/BK
X1 3
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Solenoid
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Assembly
T12
Automatic
Transmission
Assembly
X2 F
WH
B15
Transmission
Internal
Mode Switch
Automatic
Transmission
Controls
Schematics
GY
X2 A
K71
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625
YE/BK
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Fusible
Link 2
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X60A
Junction
Block -
Underhood
Power
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Schematics
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Battery -
Auxiliary
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G305
X5 S
X1 C6
X50A
Fuse Block -
Underhood
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CRNK
Relay 39
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STRTR
SOL
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Starter
Motor
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Ignition
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X200 C1
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Body
Control
Module
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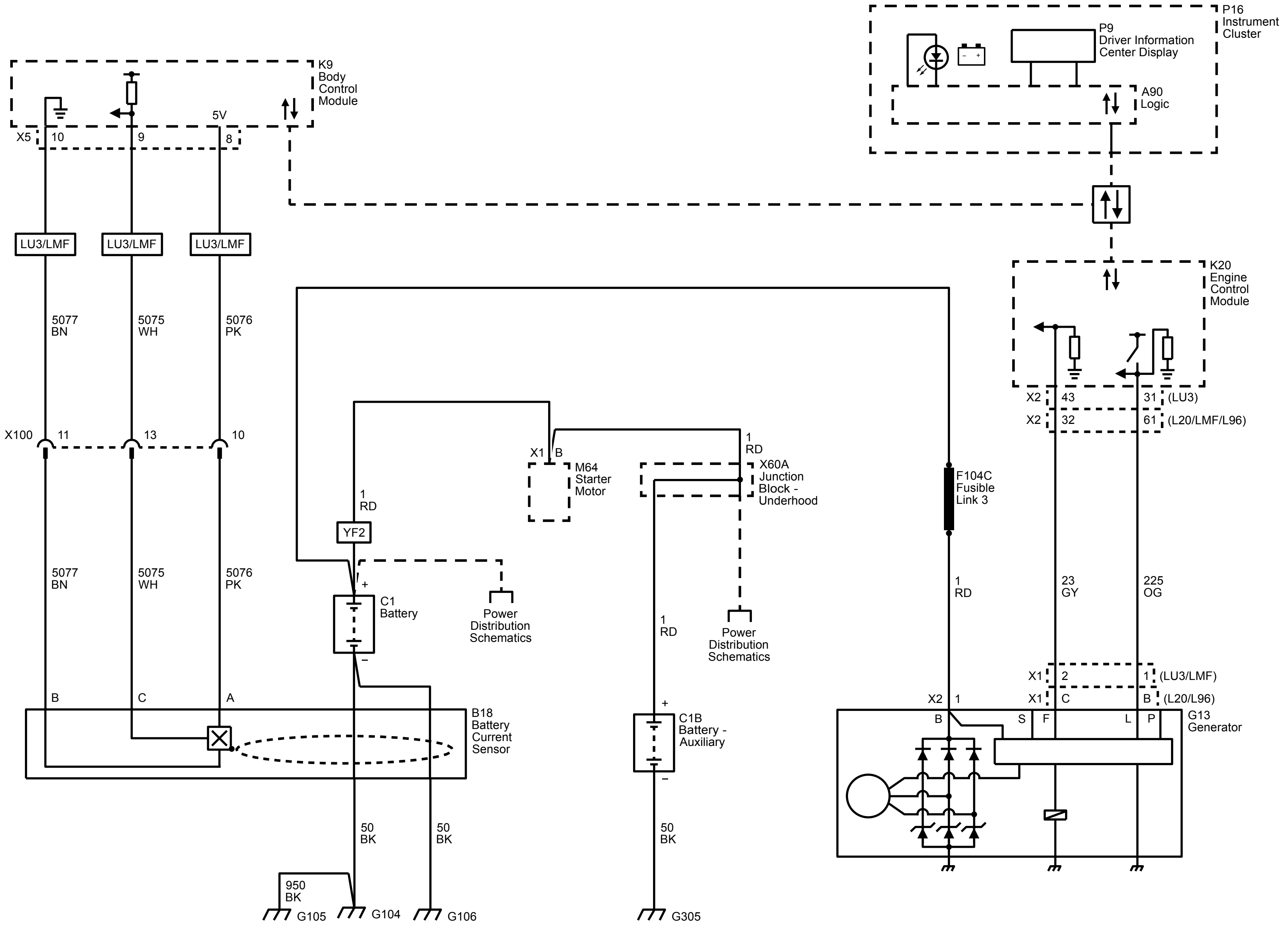
BK
G104
G105
G106
G102

Charging System (Gas)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P9
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Center Display
A90
Logic
K9
Body
Control
Module
X5
10
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5V
8
LU3/LMF
LU3/LMF
LU3/LMF
5077
BN
5075
WH
5076
PK
K20
Engine
Control
Module
X2
43
31
(LU3)
X2
32
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(L20/LMF/L96)
X100
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X1
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Starter
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X60A
Junction
Block -
Underhood
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Fusible
Link 3
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Power
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Schematics
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Schematics
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OG
X1
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(LU3/LMF)
X2
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X1
C
B
(L20/L96)
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C
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B18
Battery
Current
Sensor
+
C1B
Battery -
Auxiliary
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F
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G13
Generator
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G105
G104
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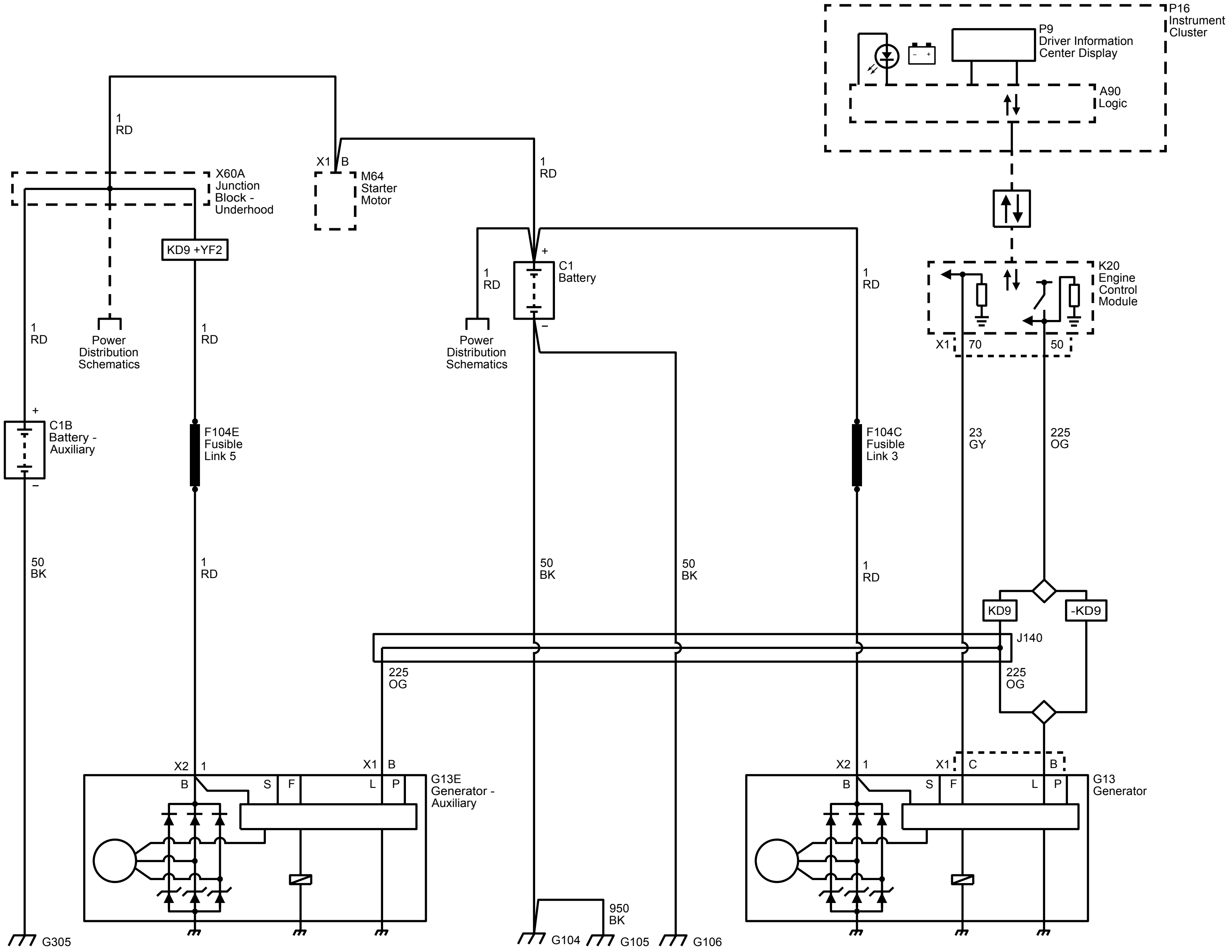
G305

1

Charging System (Diesel)


P16
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Center Display
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Junction
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KD9 +YF2
Power
Distribution
Schematics
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C1
Battery
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Power
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K20
Engine
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Battery -
Auxiliary
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F104E
Fusible
Link 5
F104C
Fusible
Link 3
23
GY
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OG
50
BK
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RD
50
BK
50
BK
1
RD
KD9
-KD9
J140
225
OG
225
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X2
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X1
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G13E
Generator -
Auxiliary
X2
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Generator
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G106

Description and Operation

Charging System Description and Operation

Electrical Power Management Overview

The electrical power management system is designed to monitor and control the charging system and send diagnostic messages to alert the driver of possible problems with the battery and generator. This electrical power management system primarily utilizes existing on-board computer capability to maximize the effectiveness of the generator, to manage the load, improve battery state-of-charge and life, and minimize the system's impact on fuel economy. The electrical power management system performs 3 functions:

- It monitors the battery voltage and estimates the battery condition.
- It takes corrective actions by boosting idle speeds, and adjusting the regulated voltage.
- It performs diagnostics and driver notification.

The battery condition is estimated during ignition-off and during ignition-on. During ignition-off the state-of-charge of the battery is determined by measuring the open-circuit voltage. The state-of-charge is a function of the acid concentration and the internal resistance of the battery, and is estimated by reading the battery open circuit voltage when the battery has been at rest for several hours.

The state-of-charge can be used as a diagnostic tool to tell the customer or the dealer the condition of the battery. Throughout ignition-on, the algorithm continuously estimates state-of-charge based on adjusted net amp hours, battery capacity, initial state-of-charge, and temperature.

While running, the battery degree of discharge is primarily determined by a battery current sensor, which is integrated to obtain net amp hours.

In addition, the electrical power management function is designed to perform regulated voltage control to improve battery state-of-charge, battery life, and fuel economy. This is accomplished by using knowledge of the battery state-of-charge and temperature to set the charging voltage to an optimum battery voltage level for recharging without detriment to battery life.

The Charging System Description and Operation is divided into 3 sections. The first section describes the charging system components and their integration into the electrical power management. The second section describes charging system operation. The third section describes the instrument panel cluster operation of the charge indicator, driver information center messages, and voltmeter operation.

Charging System Components

Generator

The generator is a serviceable component. If there is a diagnosed failure of the generator it must be replaced as an assembly. The engine drive belt drives the generator. When the rotor is spun it induces an alternating current (AC) into the stator windings. The AC voltage is then sent through a series of diodes for rectification. The rectified voltage has been converted into a direct current (DC) for use by the vehicles electrical system to maintain electrical loads and the battery charge. The voltage regulator integral to the generator controls the output of the generator. It is not serviceable. The voltage regulator controls the amount of current provided to the rotor. If the generator has field control circuit failure, the generator defaults to an output voltage of 13.8 V.

Body Control Module (BCM)

The body control module (BCM) is a GMLAN device. It communicates with the engine control module (ECM) and the instrument panel cluster for electrical power management (electrical power management) operation. The BCM determines the output of the generator and sends the information to the ECM for control of the generator turn on signal circuit. It monitors the generator field duty cycle signal circuit information sent from the ECM for control of the generator. It monitors a battery current sensor, the battery positive voltage circuit, and estimated battery temperature to determine battery state of charge. The BCM performs idle boost.

Battery Current Sensor

The battery current sensor is a serviceable component that is connected to either the negative or positive battery cable at the battery. The battery current sensor is a 3-wire hall effect current sensor. The battery current sensor monitors the battery current. It directly inputs to the BCM. It creates a 5-volt pulse width modulation (PWM) signal of 128 Hz with a duty cycle of 0–100 percent. Normal duty cycle is between 5–95 percent. Between 0–5 percent and 95–100 percent are for diagnostic purposes.

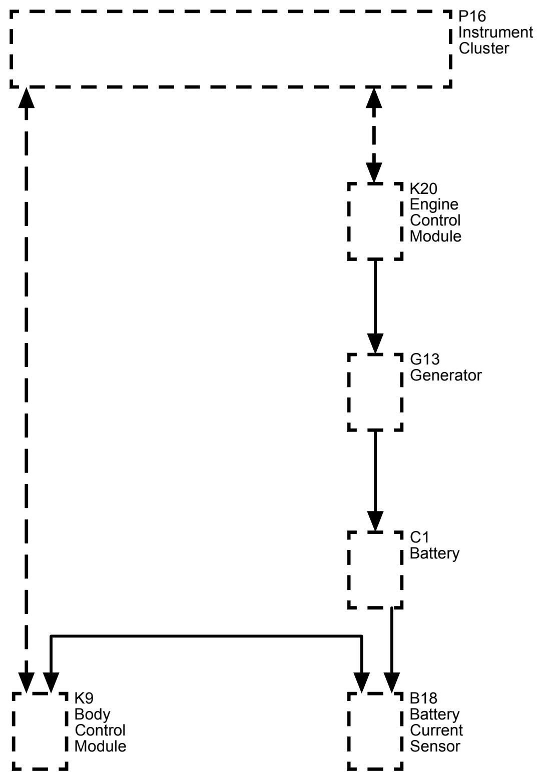
Engine Control Module (ECM)

When the engine is running, the generator turn-on signal is sent to the generator from the ECM, turning on the regulator. The generator's voltage regulator controls current to the rotor, thereby controlling the output voltage. The rotor current is proportional to the electrical pulse width supplied by the regulator. When the engine is started, the regulator senses generator rotation by detecting AC voltage at the stator through an internal wire. Once the engine is running, the regulator varies the field current by controlling the pulse width. This regulates the generator output voltage for proper battery charging and electrical system operation. The generator field duty terminal is connected internally to the voltage regulator and externally to the ECM. When the voltage regulator detects a charging system problem, it grounds this circuit to signal the ECM that a problem exists. The ECM monitors the generator field duty cycle signal circuit, and receives control decisions based on information from the BCM.

Instrument Panel Cluster

The instrument panel cluster provides the customer notification in case a concern with the charging system. There are 2 means of notification, a charge indicator and a driver information center message of SERVICE BATTERY CHARGING SYSTEM if equipped.

Charging System Block Diagram


P16
Instrument
Cluster
K20
Engine
Control
Module
G13
Generator
C1
Battery
K9
Body
Control
Module
B18
Battery
Current
Sensor

Charging System Operation

The purpose of the charging system is to maintain the battery charge and vehicle loads. There are 6 modes of operation and they include:

- Battery Sulfation Mode
- Charge Mode
- Fuel Economy Mode
- Headlamp Mode
- Start Up Mode
- Voltage Reduction Mode

The engine control module (ECM) controls the generator through the generator turn ON signal circuit. The ECM monitors the generator performance though the generator field duty cycle signal circuit. The signal is a pulse width modulation (PWM) signal of 128 Hz with a duty cycle of 0–100 percent. Normal duty cycle is between 5–95 percent. Between 0–5 percent and 95–100 percent are for diagnostic purposes. The following table shows the commanded duty cycle and output voltage of the generator:

Commanded Duty Cycle	Generator Output Voltage
10%	11 V
20%	11.56 V
30%	12.12 V
40%	12.68 V
50%	13.25 V
60%	13.81 V
70%	14.37 V

80%	14.94 V
90%	15.5 V

The generator provides a feedback signal of the generator voltage output through the generator field duty cycle signal circuit to the ECM. This information is sent to the body control module (BCM). The signal is PWM signal of 128 Hz with a duty cycle of 0–100 percent. Normal duty cycle is between 5–99 percent. Between 0–5 percent and 100 percent are for diagnostic purposes.

Battery Sulfation Mode

The BCM will enter this mode when the interpreted generator output voltage is less than 13.2 V for 45 minutes. When this condition exists the BCM will enter Charge Mode for 2–3 minutes. The BCM will then determine which mode to enter depending on voltage requirements.

Charge Mode

The BCM will enter Charge Mode when ever one of the following conditions are met.

- The wipers are ON for more than 3 seconds.
- GMLAN (Climate Control Voltage Boost Mode Request) is true, as sensed by the HVAC control head. High speed cooling fan, rear defogger and HVAC high speed blower operation can cause the BCM to enter the Charge Mode.
- The estimated battery temperature is less than 0°C (32°F).
- Battery State of Charge is less than 80 percent.
- Vehicle speed is greater than 145 km/h (90 mph)
- Current sensor fault exists.
- System voltage was determined to be below 12.56 V

When any one of these conditions is met, the system will set targeted generator output voltage to a charging voltage between 13.9–15.5 V, depending on the battery state of charge and estimated battery temperature.

Fuel Economy Mode

The BCM will enter Fuel Economy Mode when the estimated battery temperature is at least 0°C (32°F) but less than or equal to 80°C (176°F), the calculated battery current is less than 15 amperes and greater than −8 amperes, and the battery state-of-charge is greater than or equal to 80 percent. Its targeted generator output voltage is the open circuit voltage of the battery and can be between 12.5–13.1 V. The BCM will exit this mode and enter Charge Mode when any of the conditions described above are present.

Headlamp Mode

The BCM will enter Headlamp Mode when ever the headlamps are ON (high or low beams). Voltage will be regulated between 13.9–14.5 V.

Start Up Mode

When the engine is started the BCM sets a targeted generator output voltage of 14.5 V for 30 seconds.

Voltage Reduction Mode

The BCM will enter Voltage Reduction Mode when the calculated ambient air temperature is above 0°C (32°F). The calculated battery current is less than 1 ampere and greater than −7 amperes, and the generator field duty cycle is less than 99 percent. Its targeted generator output voltage is 12.9 V. The BCM will exit this mode once the criteria are met for Charge Mode.

Instrument Panel Cluster Operation

Charge Indicator Operation

The instrument panel cluster illuminates the charge indicator and displays a warning message in the driver information center if equipped, when the one or more of the following occurs:

- The engine control module (ECM) detects that the generator output is less than 11 V or greater than 16 V. The instrument panel cluster receives a GMLAN message from the ECM requesting illumination.
- The instrument panel cluster determines that the system voltage is less than 11 V or greater than 16 V for more than 30 seconds. The instrument panel cluster receives a GMLAN message from the body control module (BCM) indicating there is a system voltage range concern.
- The instrument panel cluster performs the displays test at the start of each ignition cycle. The indicator illuminates for approximately 3 seconds.

Display Message: BATTERY NOT CHARGING SERVICE CHARGING SYSTEM or SERVICE BATTERY CHARGING SYSTEM

The BCM and the ECM will send a serial data message to the driver information center for the BATTERY NOT CHARGING SERVICE CHARGING SYSTEM or SERVICE BATTERY CHARGING SYSTEM message to be displayed. It is commanded ON when a charging system DTC is a current DTC. The message is turned OFF when the conditions for clearing the DTC have been met.

Electrical Power Management Description and Operation (Gasoline)

The electrical power management is used to monitor and control the charging system and alert the driver of possible problems within the charging system. The electrical power management system makes the most efficient use of the generator output, improves the battery state-of-charge, extends battery life, and manages system electrical loads.

The load shed operation is a means of reducing electrical loads during a low voltage or low battery state-of-charge condition.

The idle boost operation is a means of improving generator performance during a low voltage or low battery state-of-charge condition.

Each electrical power management function, either idle boost or load shed, is discrete. No two functions are active at the same time. Idle boost is activated in incremental steps, idle boost 1 must be active before idle boost 2 can be active. The criteria used by the body control module (BCM) to regulate electrical power management are outlined below:

Function	Battery Temperature Calculation	Battery Voltage Calculation	Amp-Hour Calculation	Action Taken
Idle Boost 1 Start	Less Than −15°C (5°F)	Less Than 13 V	—	First level Idle boost requested
Idle Boost 1 Start	—	—	Battery has a net loss greater than 0.6 AH	First level Idle boost requested
Idle Boost 1 Start	—	Less Than 10.9 V	—	First level Idle boost requested
Idle Boost 1 End	Greater Than −15°C (5°F)	Greater Than −12 V	Battery has a net loss less than 0.2 AH	First level Idle boost request cancelled
Load Shed 1 Start	—	—	Battery has a net loss of 4 AH	Rear Defrost, Heated Mirrors, Heated Seats cycled OFF for 20% of their cycle
Load Shed 1 Start	—	Less Than 10.9 V	—	Rear Defrost, Heated Mirrors, Heated Seats cycled OFF for 20% of their cycle
Load Shed 1 End	—	Greater Than 12 V	Battery has a net loss of less than 2 AH	Clear Load Shed 1
Idle Boost 2 Start	—	—	Battery has a net loss greater than 1.6 AH	Second level Idle boost requested
Idle Boost 2 Start	—	Less Than 10.9 V	—	Second level Idle boost requested
Idle Boost 2 End	—	Greater Than 12 V	Battery has a net loss less than 0.8 AH	Second level Idle boost request cancelled
Idle Boost 3 Start	—	—	Battery has a net loss of 10.0 AH	Third level Idle boost requested
Idle Boost 3 Start	—	Less Than 10.9 V	—	Third level Idle boost requested
Idle Boost 3 End	—	Greater Than 12 V	Battery has a net loss of less than 6.0 AH	Third level Idle boost request cancelled
Load Shed 2 Start	—	Less Than 10.9 V	Battery has a net loss greater than 12 AH	Rear Defrost, Heated Mirrors, Heated Seats cycled OFF for 50% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC

Load Shed 2 Start	—	Less Than 10.9 V	—	Rear Defrost, Heated Mirrors, Heated Seats cycled OFF for 50% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 2 End	—	Greater Than 12.6 V	Battery has a net loss of less than 10.5 AH	Clear Load Shed 2
Load Shed 3 Start	—	Less Than 11.9 V	Battery has a net loss greater than 20 AH	Rear Defrost, Heated Mirrors, Heated Seats cycled OFF for 100% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 3 End	—	Greater Than 12.6 V	Battery has a net loss of less than 15 AH	Clear Load Shed 3

Electrical Power Management Description and Operation (Diesel)

The electrical power management is used to monitor and control the charging system and alert the driver of possible problems within the charging system. The electrical power management system makes the most efficient use of the generator output, improves the battery state-of-charge, extends battery life, and manages system electrical loads.

The load shed operation is a means of reducing electrical loads during a low voltage or low battery state-of-charge condition.

The idle boost operation is a means of improving generator performance during a low voltage or low battery state-of-charge condition. Idle boost consists of three steps: idle boost 1, idle boost 2, and idle boost 3 (approximately 725, 850, and 850 rpm respectively). Idle boost is activated in incremental steps, idle boost 1 must be active before idle boost 2 can be active.

Each electrical power management function, either idle boost or load shed, is discrete. No two functions are active at the same time. The criteria used by the body control module (BCM) to regulate electrical power management are outlined below:

Function	Battery Temperature Calculation	Battery Voltage Calculation	Amp-Hour Calculation	Action Taken
Idle Boost 1 Start	Less Than −15°C (5°F)	Less Than 13 V	—	First level Idle boost requested
Idle Boost 1 Start	—	—	Battery has a net loss greater than 0.6 AH	First level Idle boost requested
Idle Boost 1 Start	—	Less Than 10.9 V	—	First level Idle boost requested
Idle Boost 1 End	Greater Than −15°C (5°F)	Greater Than −12 V	Battery has a net loss less than 0.2 AH	First level Idle boost request cancelled
Load Shed 1 Start	—	—	Battery has a net loss of 4 AH	Rear Defrost, Heated Mirrors, Heated Seats cycled OFF for 20% of their cycle
Load Shed 1 Start	—	Less Than 10.9 V	—	Rear Defrost, Heated Mirrors, Heated Seats cycled OFF for 20% of their cycle
Load Shed 1 End	—	Greater Than 12 V	Battery has a net loss of less than 2 AH	Clear Load Shed 1
Idle Boost 2 Start	—	—	Battery has a net loss greater than 1.6 AH	Second level Idle boost requested
Idle Boost 2 Start	—	Less Than 10.9 V	—	Second level Idle boost requested
Idle Boost 2 End	—	Greater Than 12 V	Battery has a net loss less than 0.8 AH	Second level Idle boost request cancelled
Idle Boost 3 Start	—	—	Battery has a net loss of 10.0 AH	Third level Idle boost requested
Idle Boost 3 Start	—	Less Than 10.9 V	—	Third level Idle boost requested
Idle Boost 3 End	—	Greater Than 12 V	Battery has a net loss of less than 6.0 AH	Third level Idle boost request cancelled
Load Shed 2 Start	—	Less Than 10.9 V	Battery has a net loss greater than 12 AH	Rear Defrost, Heated Mirrors, Heated Seats cycled OFF for 50% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC

Load Shed 2 Start	—	Less Than 10.9 V	—	Rear Defrost, Heated Mirrors, Heated Seats cycled OFF for 50% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 2 End	—	Greater Than 12.6 V	Battery has a net loss of less than 10.5 AH	Clear Load Shed 2
Load Shed 3 Start	—	Less Than 11.9 V	Battery has a net loss greater than 20 AH	Rear Defrost, Heated Mirrors, Heated Seats cycled OFF for 100% of their cycle. The BATTERY SAVER ACTIVE message will be displayed on the DIC
Load Shed 3 End	—	Greater Than 12.6 V	Battery has a net loss of less than 15 AH	Clear Load Shed 3

Starting System Description and Operation

The starter motors are non-repairable starter motors. They have pole pieces that are arranged around the armature. Both solenoid windings are energized. The pull-in winding circuit is completed to the ground through the starter motor. The windings work together magnetically to pull and hold in the plunger. The plunger moves the shift lever. This action causes the starter drive assembly to rotate on the armature shaft spline as it engages with the flywheel ring gear on the engine. Moving at the same time, the plunger also closes the solenoid switch contacts in the starter solenoid. Full battery voltage is applied directly to the starter motor and it cranks the engine.

As soon as the solenoid switch contacts close, current stops flowing thorough the pull-in winding because battery voltage is applied to both ends of the windings. The hold-in winding remains energized. Its magnetic field is strong enough to hold the plunger, shift lever, starter drive assembly, and solenoid switch contacts in place to continue cranking the engine. When the engine starts, pinion overrun protects the armature from excessive speed until the switch is opened.

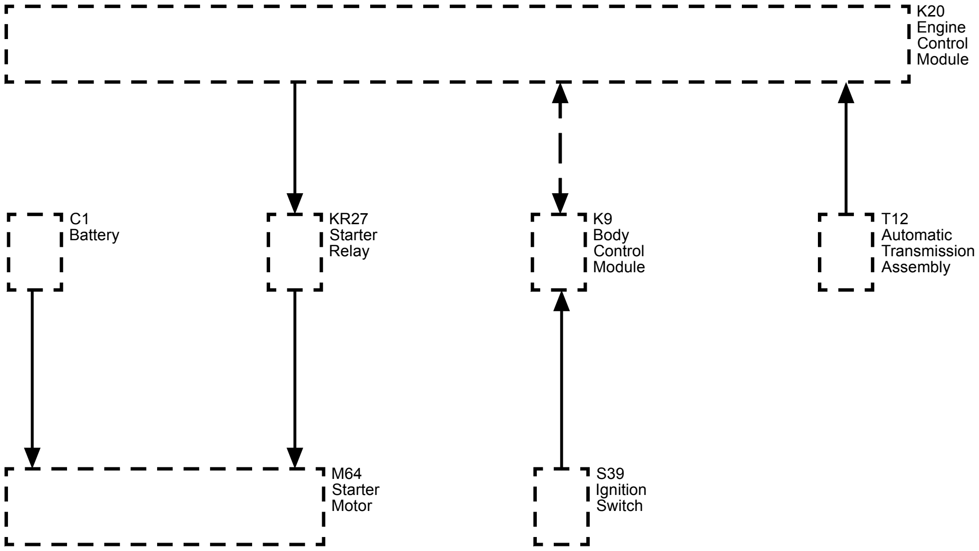
When the ignition switch is released from the START position, the START relay opens and battery voltage is removed from the starter solenoid S terminal. Current flows from the motor contacts through both windings to the ground at the end of the hold-in winding. However, the direction of the current flow through the pull-in winding is now opposite the direction of the current flow when the winding was first energized.

The magnetic fields of the pull-in and hold-in windings now oppose one another. This action of the windings, along with the help of the return spring, causes the starter drive assembly to disengage and the solenoid switch contacts to open simultaneously. As soon as the contacts open, the starter circuit is turned off.

Circuit Description (Key Start)

When the ignition switch is placed in the Start position, a discrete signal is supplied to the body control module (BCM) notifying it that the ignition is in the Start position. The BCM then sends a message to the engine control module (ECM) notifying it that CRANK has been requested. The ECM verifies that the transmission is in Park or Neutral. If it is, the ECM then supplies 12 V to the control circuit of the crank relay. When this occurs, battery positive voltage is supplied through the switch side of the crank relay to the S terminal of the starter solenoid.

Starting System Block Diagram



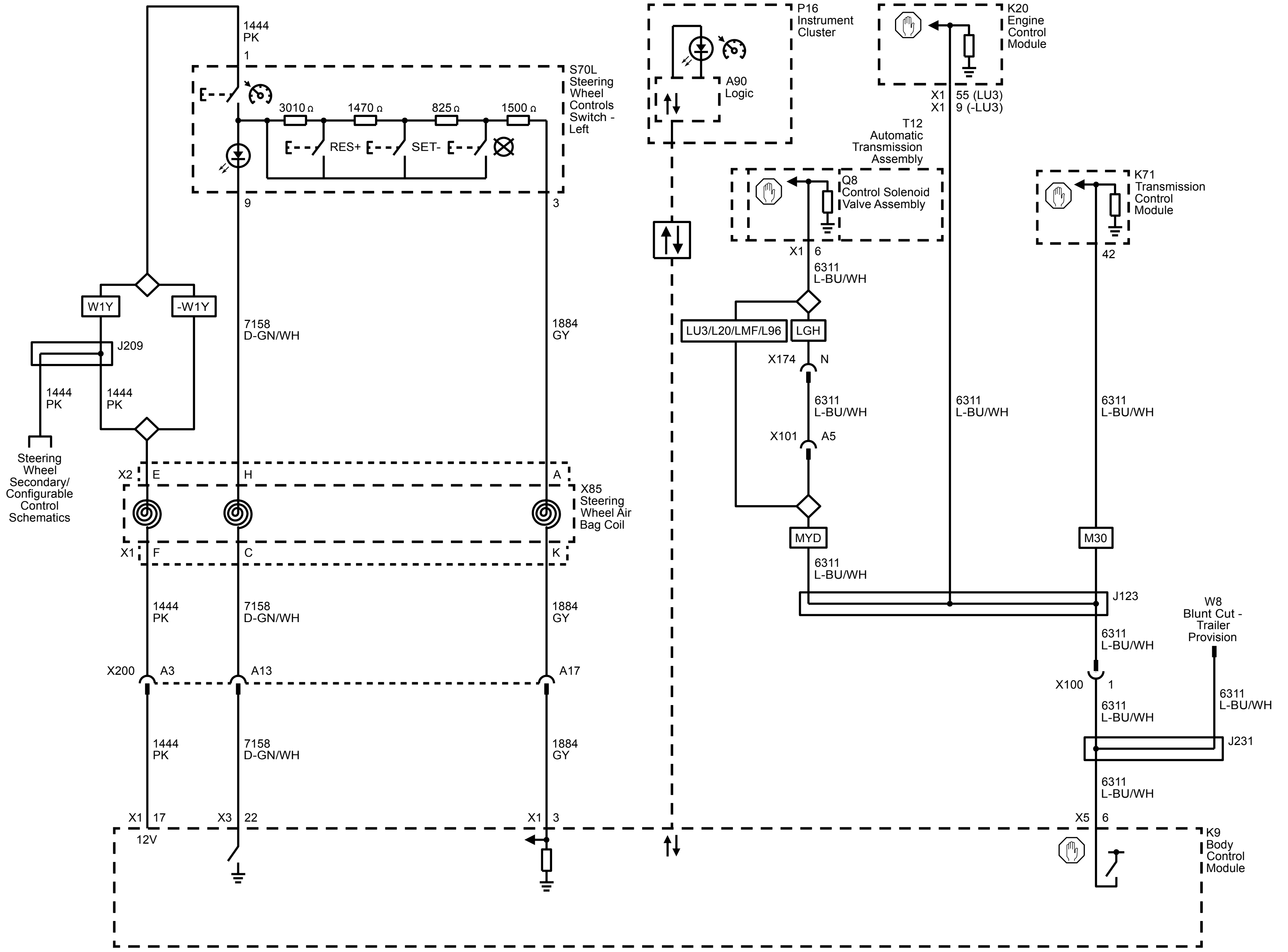
Engine/Propulsion

Cruise Control

Schematic and Routing Diagrams

Cruise Control Schematics

K34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3010 Ω
1470 Ω
825 Ω
1500 Ω
RES+
SET-
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W1Y
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J209
1444
PK
1444
PK
Steering Wheel Secondary/ Configurable Control Schematics
7158
D-GN/WH
1884
GY
X2
E
H
A
X85 Steering Wheel Air Bag Coil
X1
F
C
K
1444
PK
7158
D-GN/WH
1884
GY
X200
A3
A13
A17
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PK
7158
D-GN/WH
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GY
X1
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X3
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X1
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12V
P16 Instrument Cluster
A90 Logic
K20 Engine Control Module
X1
55 (LU3)
X1
9 (-LU3)
T12 Automatic Transmission Assembly
Q8 Control Solenoid Valve Assembly
X1
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6311
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X174
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L-BU/WH
X101
A5
6311
L-BU/WH
MYD
6311
L-BU/WH
K71 Transmission Control Module
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L-BU/WH
M30
J123
6311
L-BU/WH
W8 Blunt Cut - Trailer Provision
X100
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6311
L-BU/WH
6311
L-BU/WH
J231
6311
L-BU/WH
X5
6
K9 Body Control Module

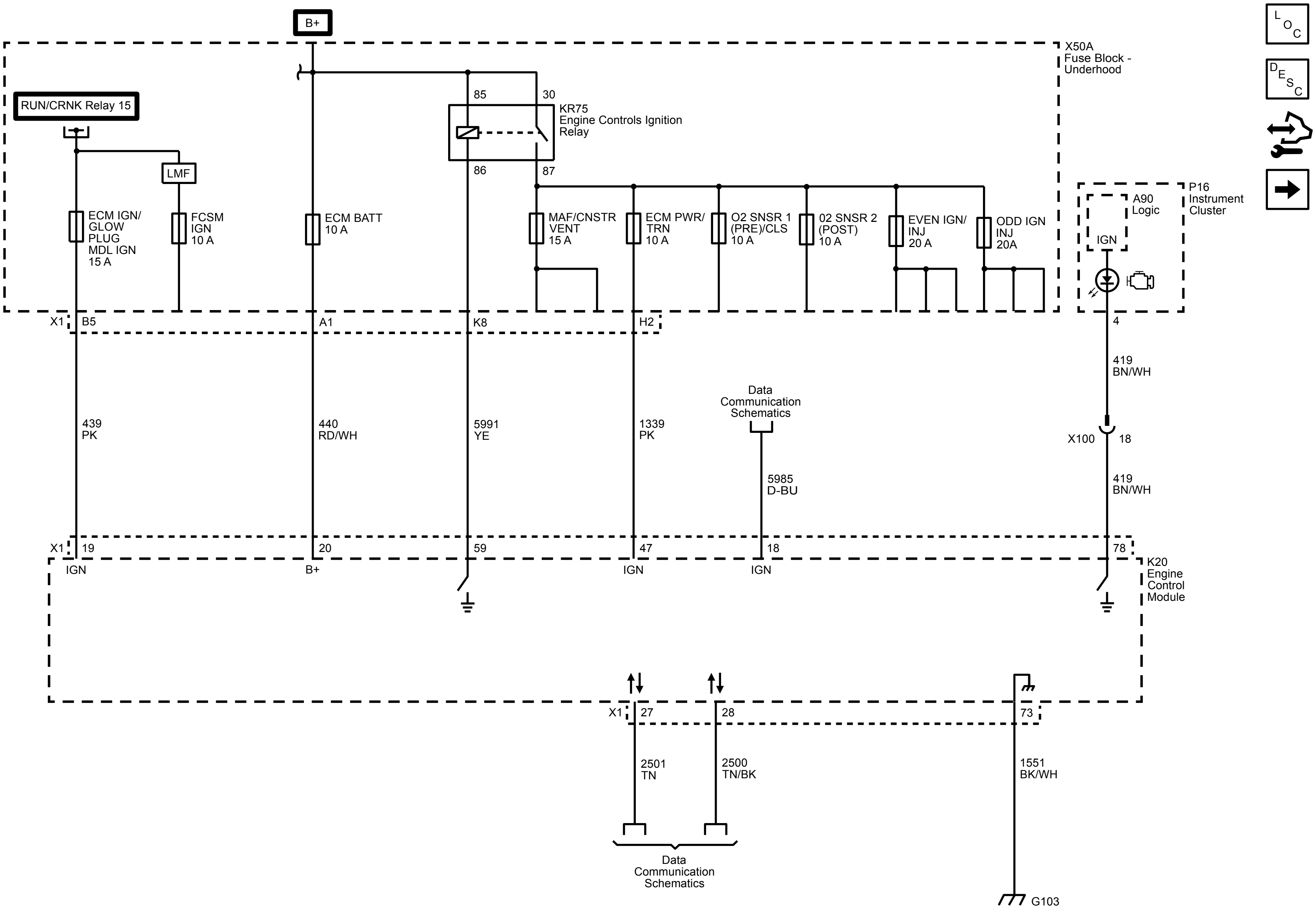
Engine/Propulsion

Engine Controls and Fuel - 4.8L (L20) or 6.0L (L96 LC8)

Schematic and Routing Diagrams

Engine Controls Schematics

Module Power, Ground, Serial Data and MIL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LMF
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KR75
Engine Controls Ignition Relay
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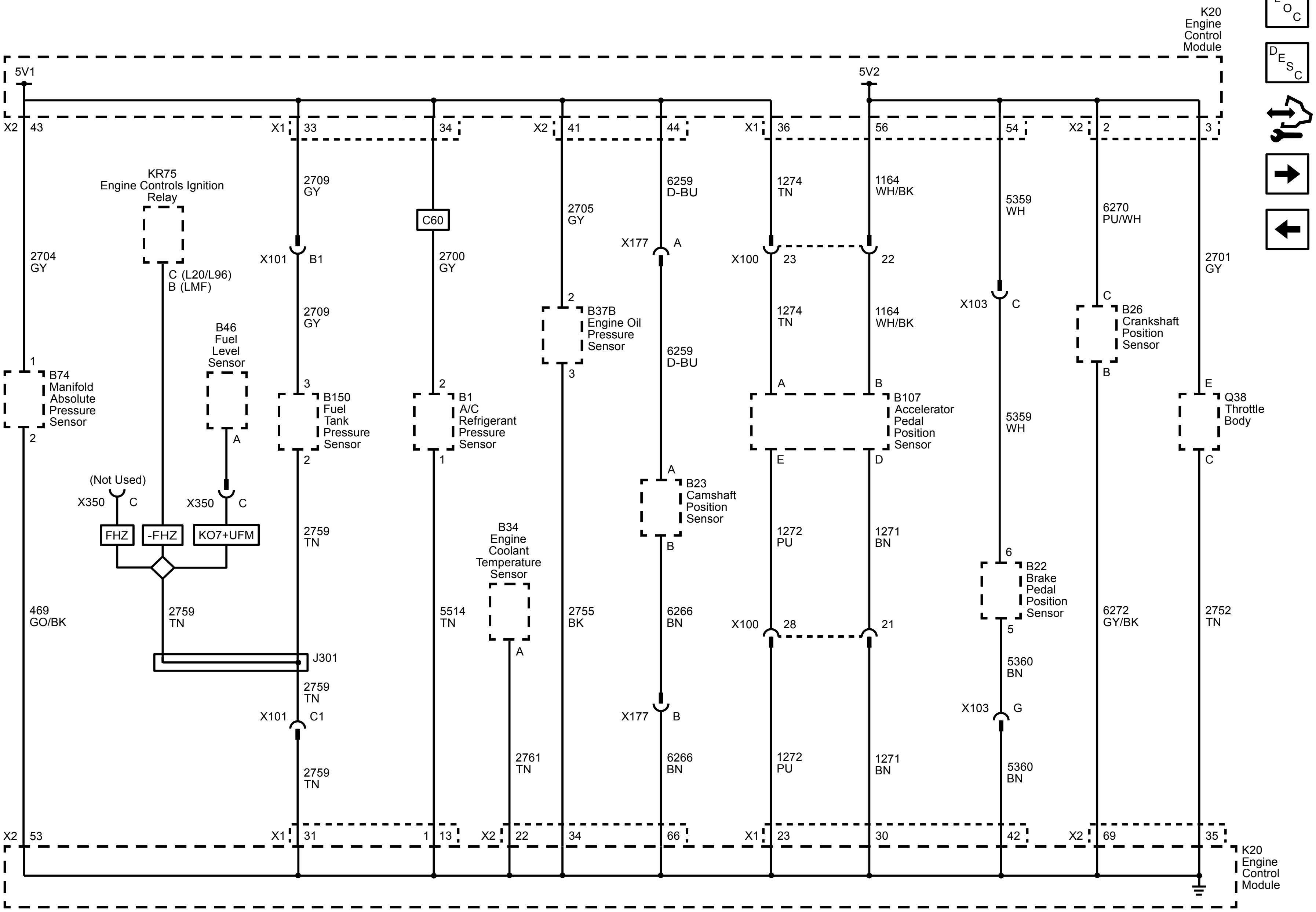
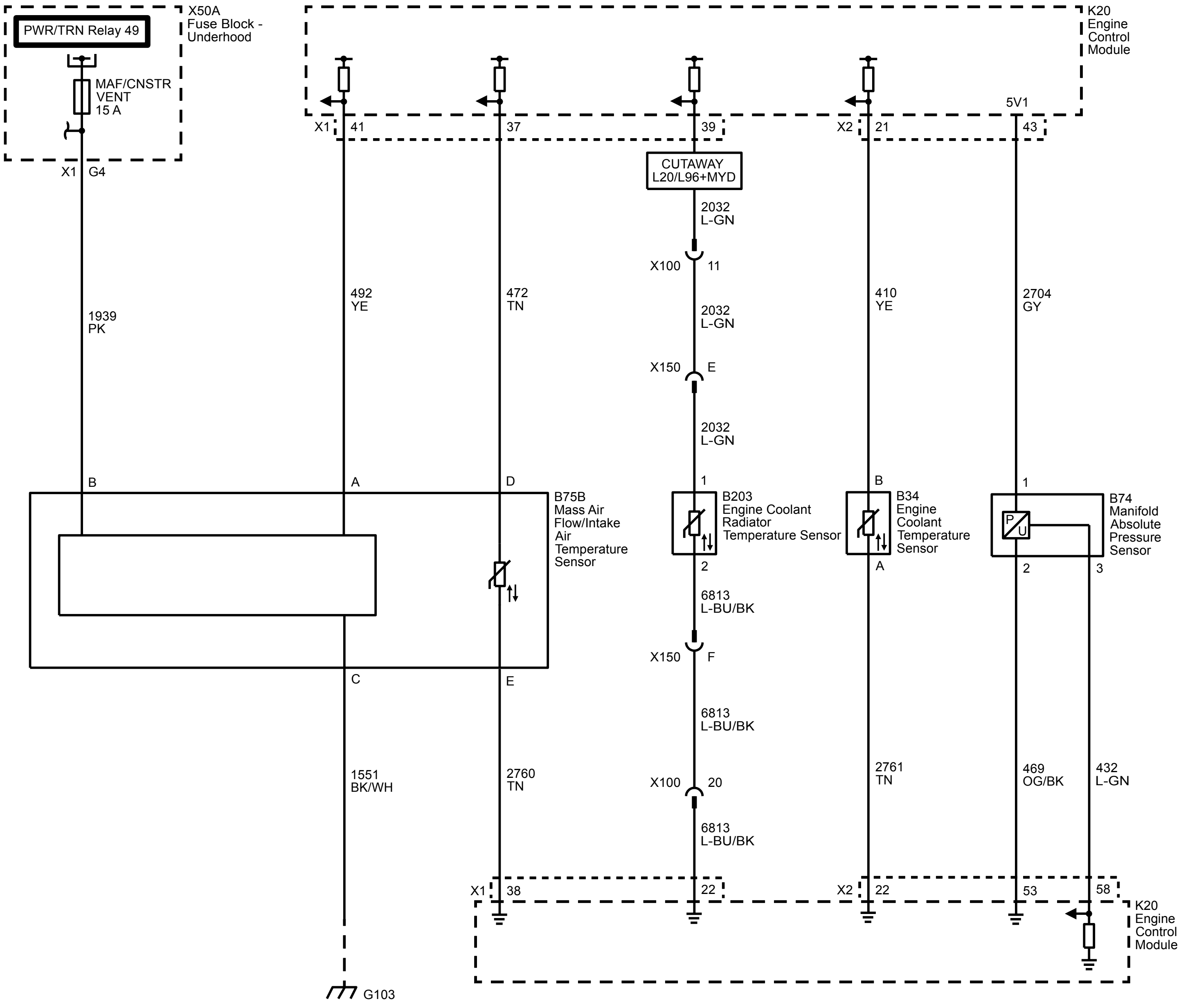
87
ECM IGN/ GLOW PLUG MDL IGN 15 A
FCSM IGN 10 A
ECM BATT 10 A
MAF/CNSTR VENT 15 A
ECM PWR/ TRN 10 A
O2 SNSR 1 (PRE)/CLS 10 A
02 SNSR 2 (POST) 10 A
EVEN IGN/ INJ 20 A
ODD IGN INJ 20A
A90 Logic
P16 Instrument Cluster
IGN
4
419 BN/WH
X100
18
419 BN/WH
X1
B5
A1
K8
H2
439 PK
440 RD/WH
5991 YE
1339 PK
Data Communication Schematics
5985 D-BU
X1
19
20
59
47
18
78
IGN
B+
IGN
IGN
K20 Engine Control Module
X1
27
28
73
2501 TN
2500 TN/BK
1551 BK/WH
Data Communication Schematics
G103
L O C
D E S C

5V1, 5V2, and Low Reference Bus



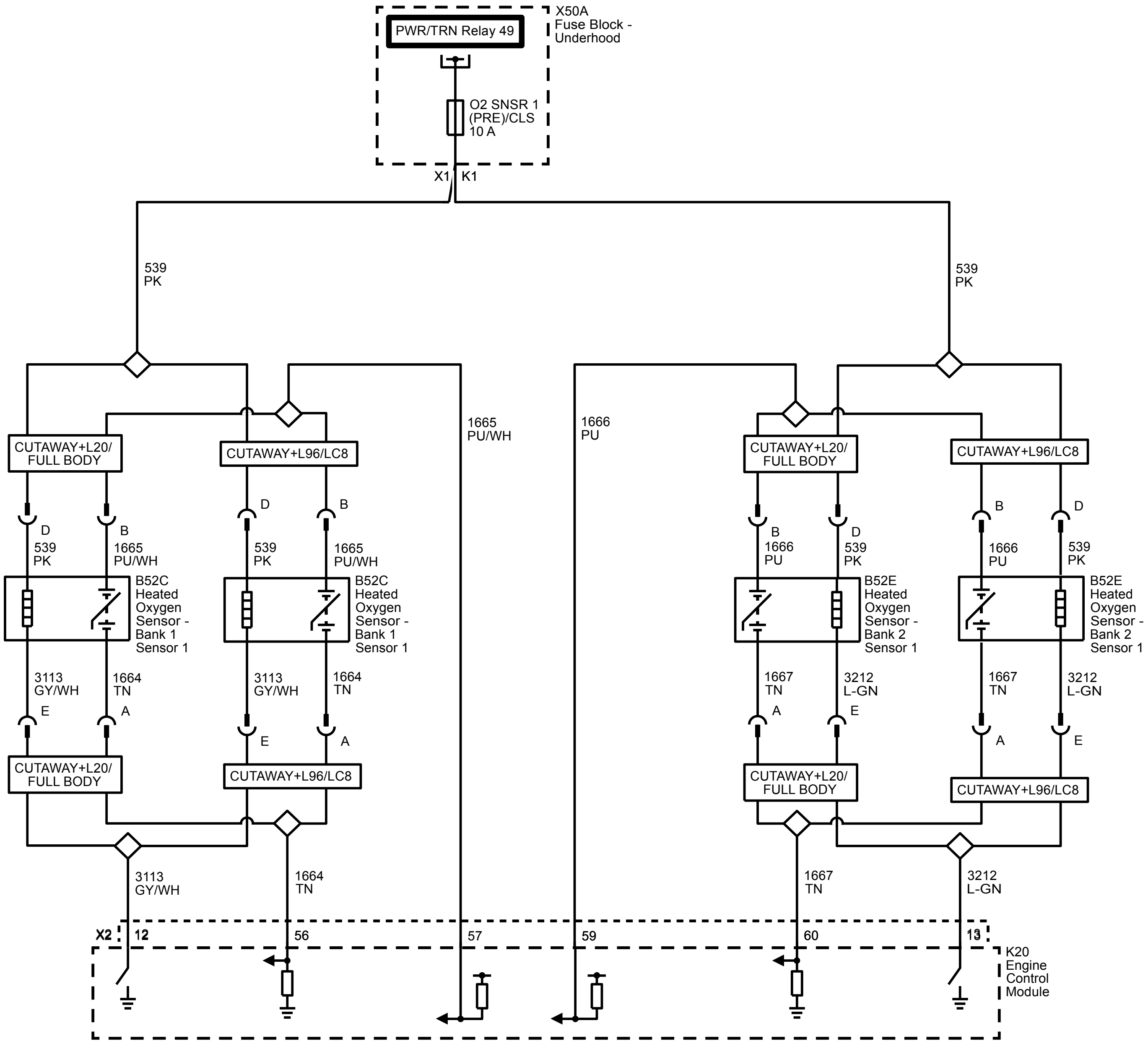
K20 Engine Control Module
5V1
5V2
X2 43
X1 33
34
X2 41
44
X1 36
56
54
X2 2
3
2704 GY
KR75 Engine Controls Ignition Relay
C (L20/L96)
B (LMF)
2709 GY
X101 B1
2709 GY
C60
2700 GY
2705 GY
6259 D-BU
X177 A
1274 TN
1164 WH/BK
X100 23
22
1274 TN
1164 WH/BK
5359 WH
X103 C
6270 PU/WH
2701 GY
1
B74 Manifold Absolute Pressure Sensor
2
B46 Fuel Level Sensor
A
3
B150 Fuel Tank Pressure Sensor
2
B1 A/C Refrigerant Pressure Sensor
1
2
B37B Engine Oil Pressure Sensor
3
6259 D-BU
A
B107 Accelerator Pedal Position Sensor
B
E
D
5359 WH
C
B26 Crankshaft Position Sensor
B
E
Q38 Throttle Body
C
(Not Used)
X350 C
X350 C
FHZ
-FHZ
KO7+UFM
2759 TN
A
B23 Camshaft Position Sensor
B
B34 Engine Coolant Temperature Sensor
1272 PU
1271 BN
6
B22 Brake Pedal Position Sensor
5
469 GO/BK
2759 TN
5514 TN
2755 BK
6266 BN
X100 28
21
6272 GY/BK
2752 TN
J301
A
2759 TN
X101 C1
X177 B
5360 BN
X103 G
2759 TN
2761 TN
6266 BN
1272 PU
1271 BN
5360 BN
X2 53
X1 31
1
13
X2 22
34
66
X1 23
30
42
X2 69
35
K20 Engine Control Module

Engine Data Sensors - Pressure and Temperature Controls

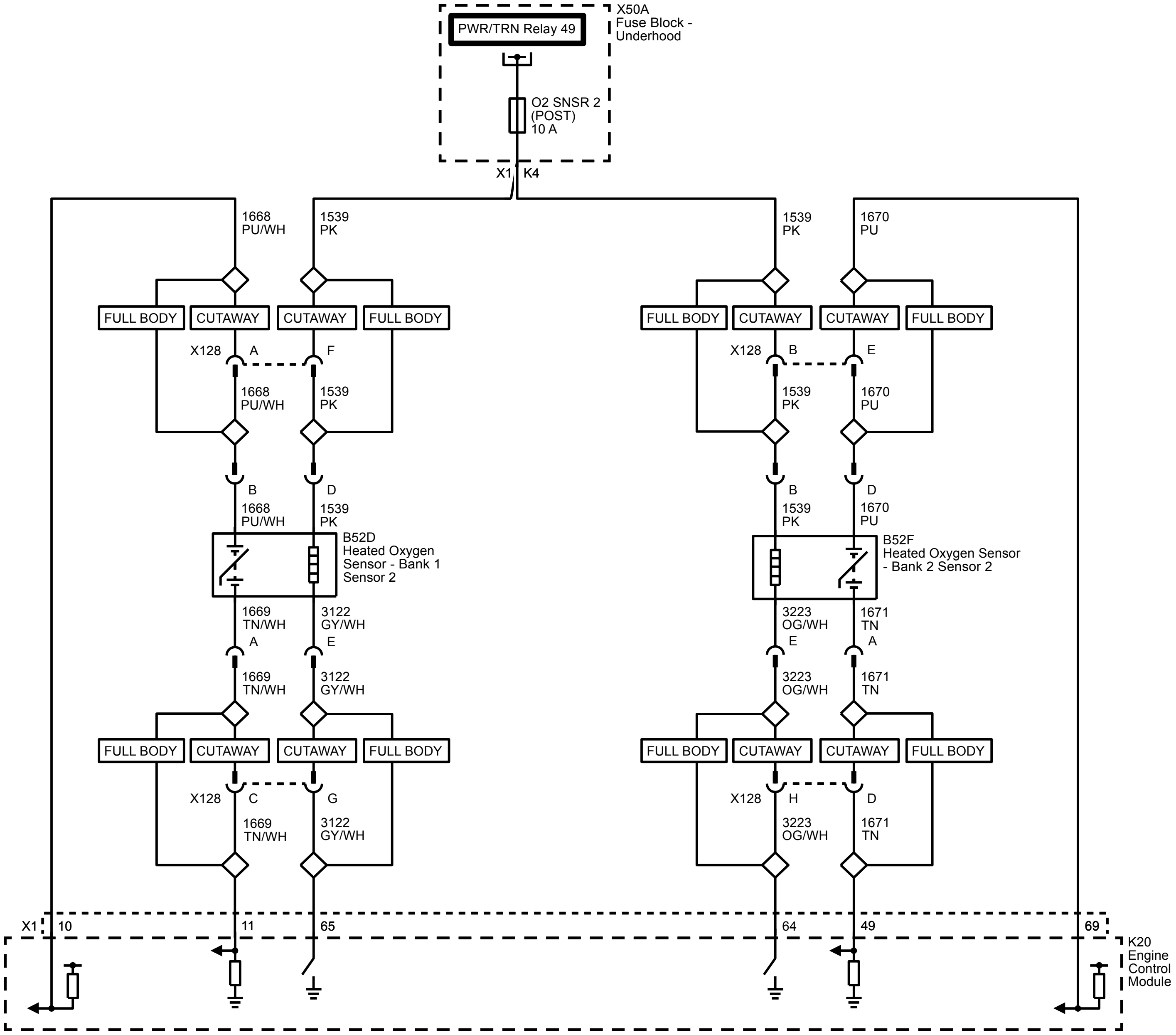


PWR/TRN Relay 49
X50A
Fuse Block - Underhood
MAF/CNSTR VENT 15 A
X1 G4
1939 PK
K20 Engine Control Module
X1 41
37
39
X2 21
5V1
43
CUTAWAY L20/L96+MYD
2032 L-GN
X100 11
2032 L-GN
X150 E
2032 L-GN
492 YE
472 TN
410 YE
2704 GY
B
A
D
B75B Mass Air Flow/Intake Air Temperature Sensor
1
B203 Engine Coolant Radiator Temperature Sensor
2
B
B34 Engine Coolant Temperature Sensor
A
1
B74 Manifold Absolute Pressure Sensor
P
U
2
3
C
E
6813 L-BU/BK
X150 F
6813 L-BU/BK
X100 20
6813 L-BU/BK
1551 BK/WH
2760 TN
2761 TN
469 OG/BK
432 L-GN
X1 38
22
X2 22
53
58
K20 Engine Control Module
G103

Engine Data Sensors - Heated Oxygen Sensors (1 of 2)

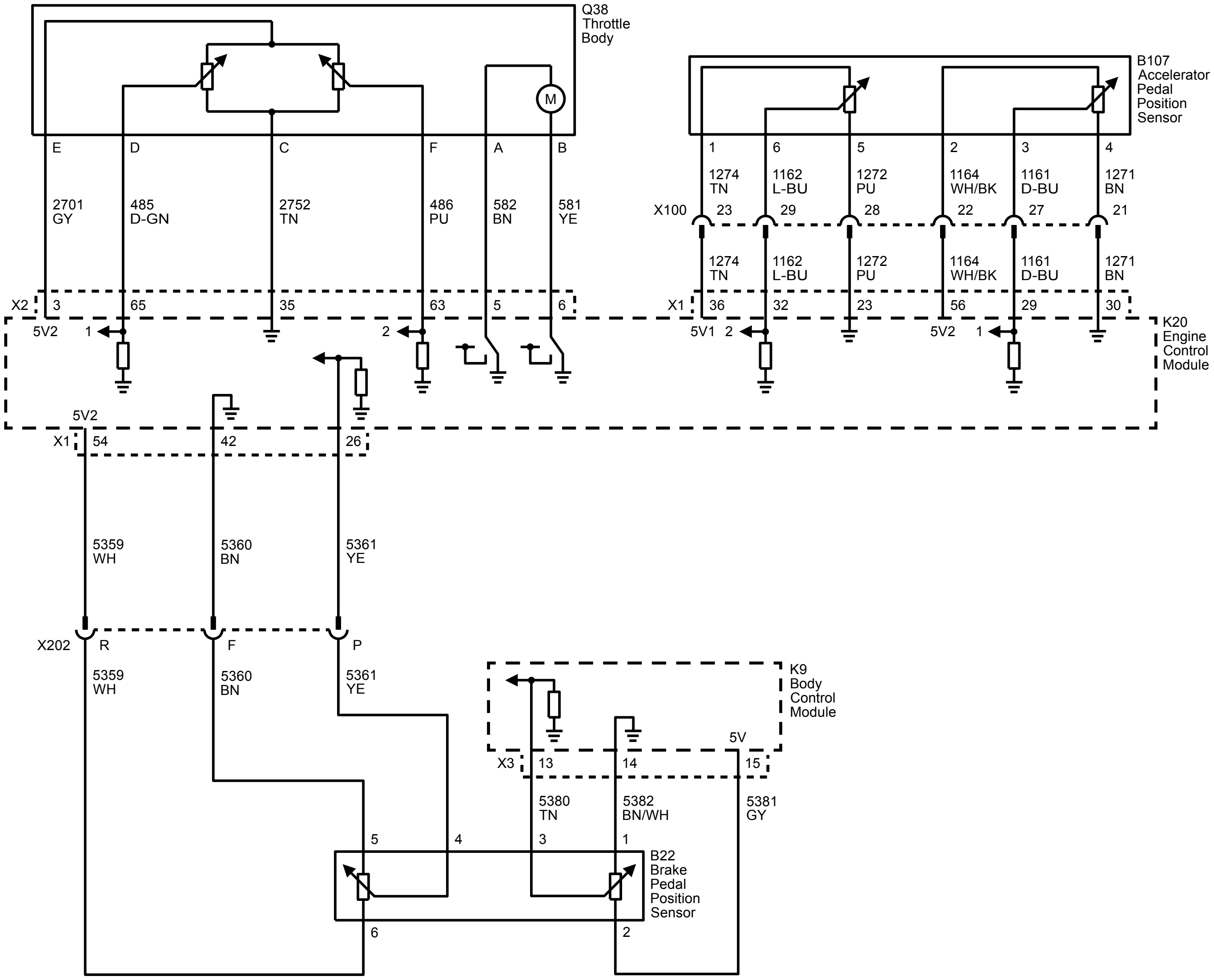

PWR/TRN Relay 49
X50A
Fuse Block -
Underhood
O2 SNSR 1
(PRE)/CLS
10 A
X1
K1
539
PK
539
PK
CUTAWAY+L20/
FULL BODY
CUTAWAY+L96/LC8
1665
PU/WH
1666
PU
CUTAWAY+L20/
FULL BODY
CUTAWAY+L96/LC8
D
B
D
B
539
PK
1665
PU/WH
539
PK
1665
PU/WH
B52C
Heated
Oxygen
Sensor -
Bank 1
Sensor 1
B52C
Heated
Oxygen
Sensor -
Bank 1
Sensor 1
B
D
B
D
1666
PU
539
PK
1666
PU
539
PK
B52E
Heated
Oxygen
Sensor -
Bank 2
Sensor 1
B52E
Heated
Oxygen
Sensor -
Bank 2
Sensor 1
3113
GY/WH
1664
TN
E
A
3113
GY/WH
1664
TN
E
A
1667
TN
3212
L-GN
A
E
1667
TN
3212
L-GN
A
E
CUTAWAY+L20/
FULL BODY
CUTAWAY+L96/LC8
CUTAWAY+L20/
FULL BODY
CUTAWAY+L96/LC8
3113
GY/WH
1664
TN
1667
TN
3212
L-GN
X2
12
56
57
59
60
13
K20
Engine
Control
Module

Engine Data Sensors - Heated Oxygen Sensors (2 of 2)

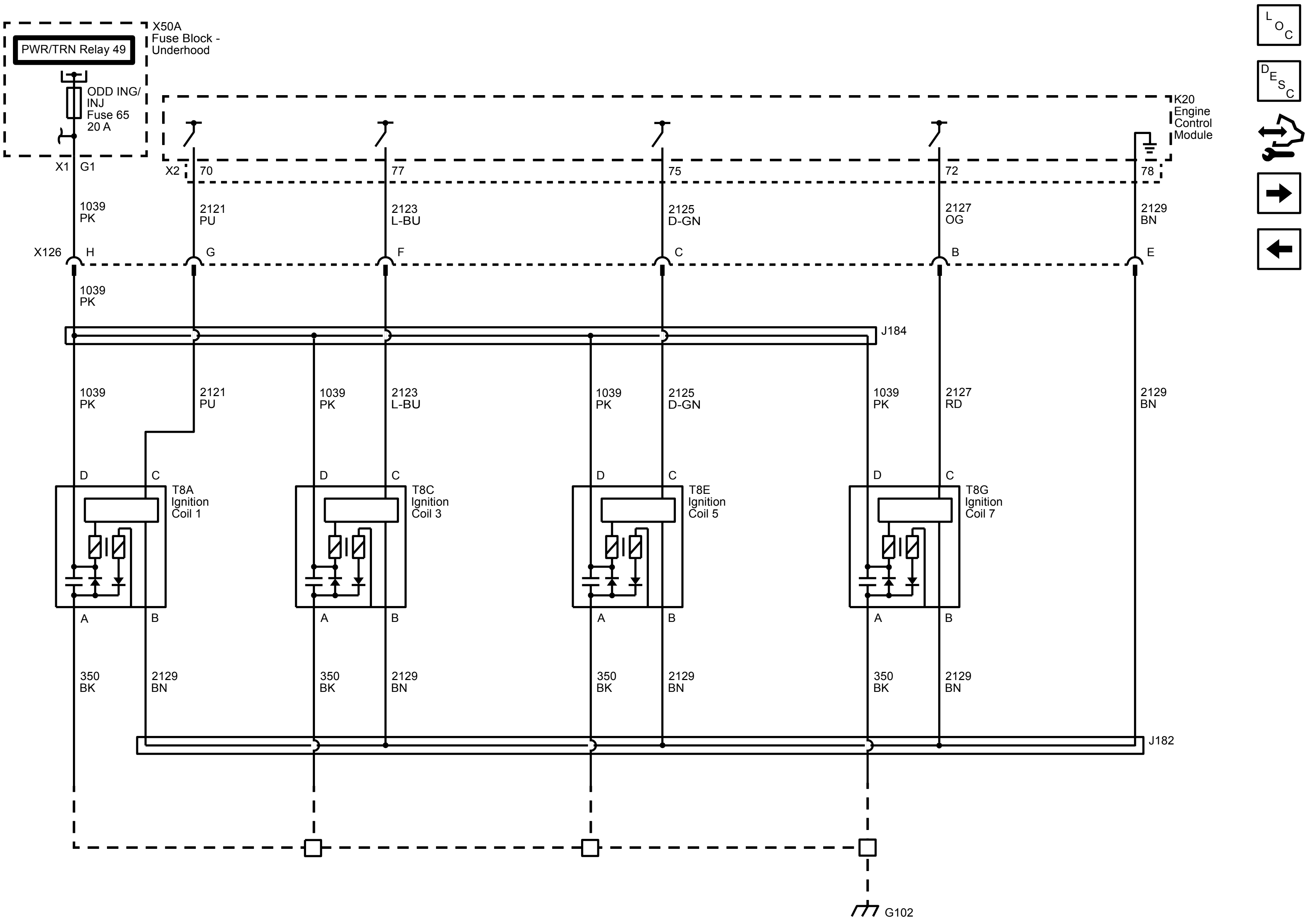

PWR/TRN Relay 49
X50A
Fuse Block -
Underhood
O2 SNSR 2
(POST)
10 A
X1
K4
1668
PU/WH
1539
PK
1539
PK
1670
PU
FULL BODY
CUTAWAY
CUTAWAY
FULL BODY
FULL BODY
CUTAWAY
CUTAWAY
FULL BODY
X128
A
F
X128
B
E
1668
PU/WH
1539
PK
1539
PK
1670
PU
B
D
B
D
1668
PU/WH
1539
PK
1539
PK
1670
PU
B52D
Heated Oxygen
Sensor - Bank 1
Sensor 2
B52F
Heated Oxygen Sensor
- Bank 2 Sensor 2
1669
TN/WH
3122
GY/WH
3223
OG/WH
1671
TN
A
E
E
A
1669
TN/WH
3122
GY/WH
3223
OG/WH
1671
TN
FULL BODY
CUTAWAY
CUTAWAY
FULL BODY
FULL BODY
CUTAWAY
CUTAWAY
FULL BODY
X128
C
G
X128
H
D
1669
TN/WH
3122
GY/WH
3223
OG/WH
1671
TN
X1
10
11
65
64
49
69
K20
Engine
Control
Module

Engine Data Sensors - Throttle Controls

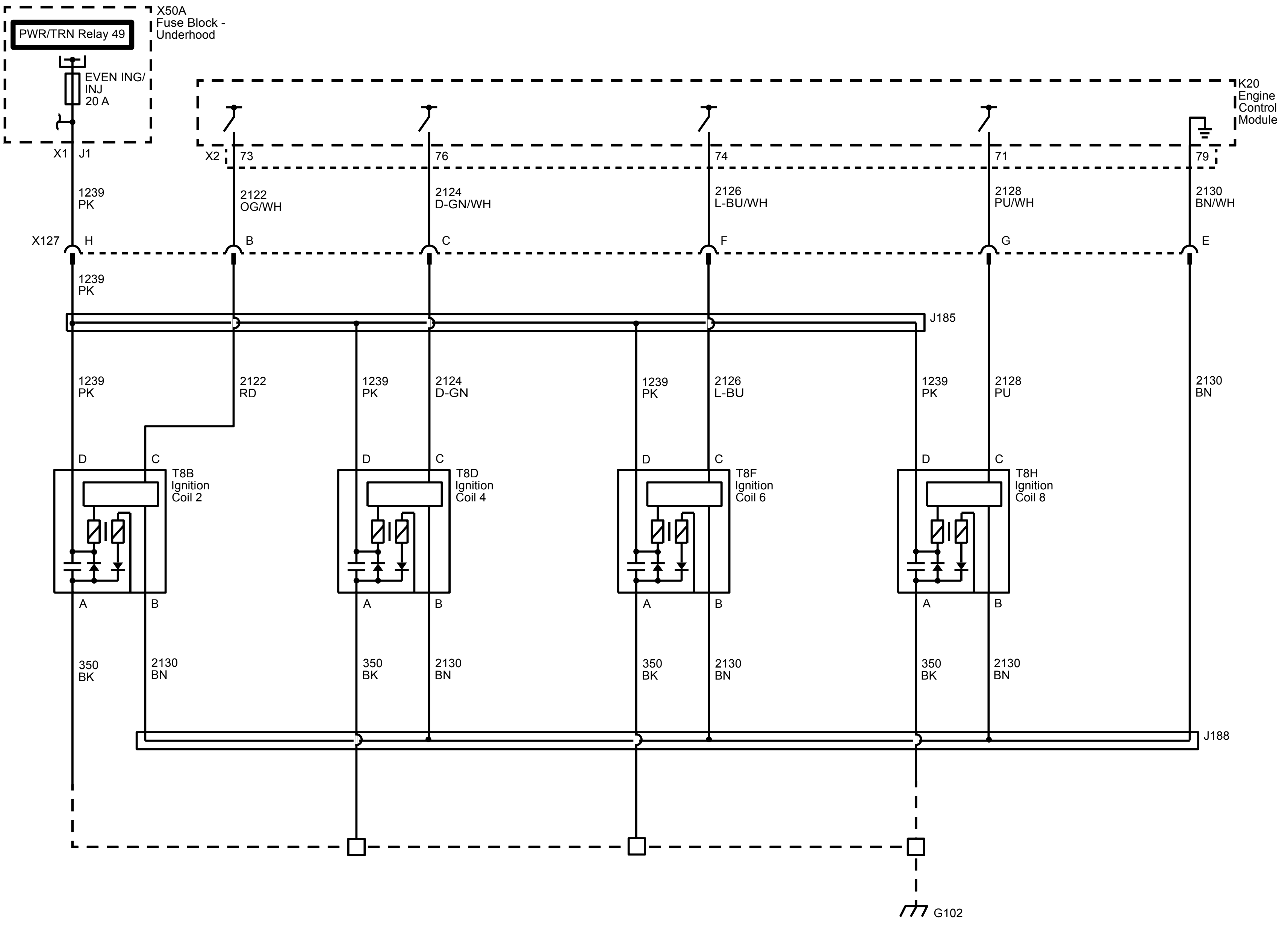
LOC
DESC


Q38 Throttle Body
M
E
D
C
F
A
B
2701 GY
485 D-GN
2752 TN
486 PU
582 BN
581 YE
B107 Accelerator Pedal Position Sensor
1
6
5
2
3
4
1274 TN
1162 L-BU
1272 PU
1164 WH/BK
1161 D-BU
1271 BN
X100
23
29
28
22
27
21
1274 TN
1162 L-BU
1272 PU
1164 WH/BK
1161 D-BU
1271 BN
X2
3
65
35
63
5
6
X1
36
32
23
56
29
30
K20 Engine Control Module
5V2
1
2
5V1
2
5V2
1
5V2
X1
54
42
26
5359 WH
5360 BN
5361 YE
X202
R
F
P
5359 WH
5360 BN
5361 YE
K9 Body Control Module
5V
X3
13
14
15
5380 TN
5382 BN/WH
5381 GY
5
4
3
1
B22 Brake Pedal Position Sensor
6
2

Ignition Controls - Ignition System Coils 1, 3, 5, and 7

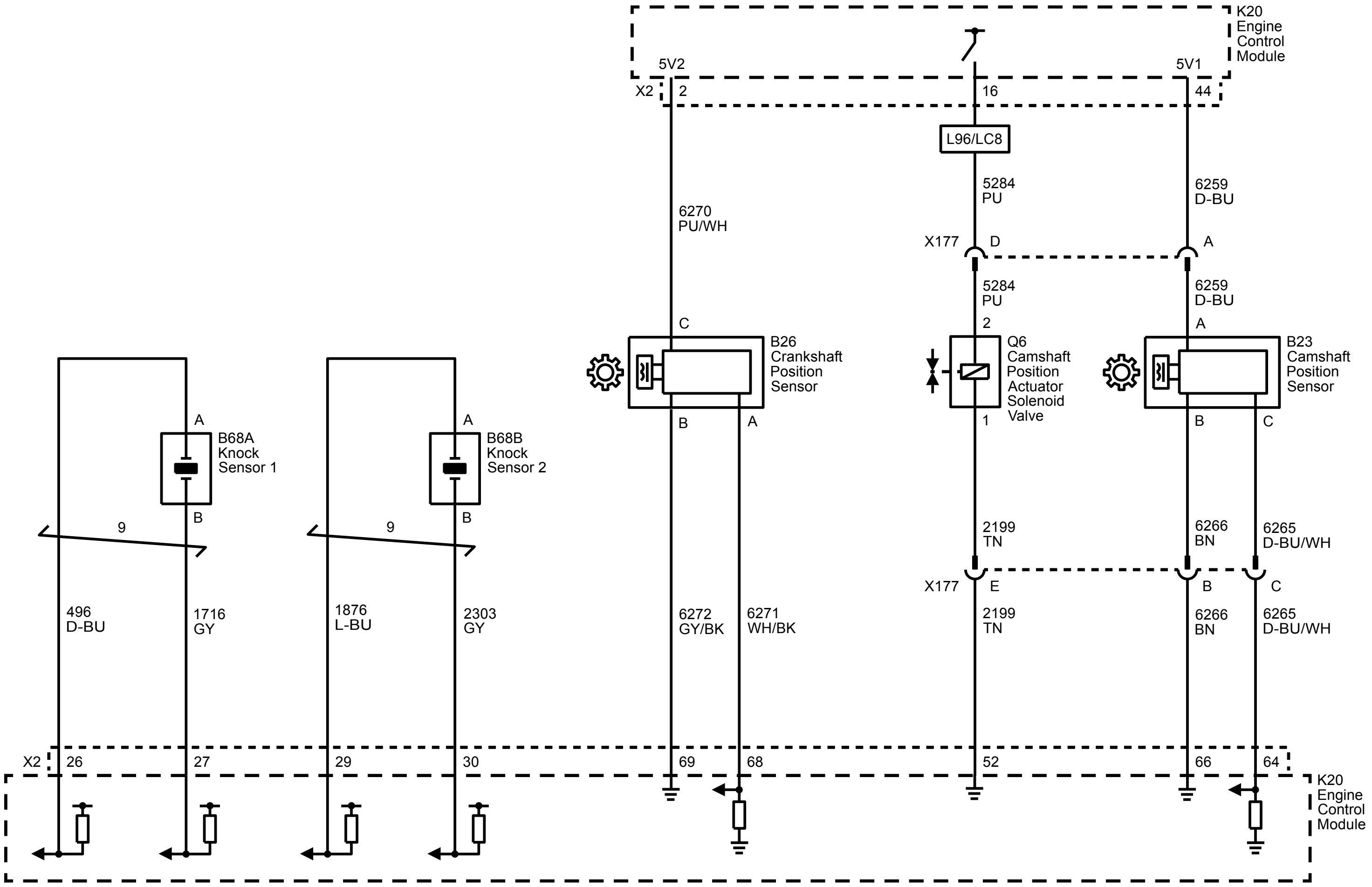

X50A
Fuse Block - Underhood
PWR/TRN Relay 49
ODD ING/ INJ Fuse 65 20 A
X1 G1
K20 Engine Control Module
X2 70
77
75
72
78
1039 PK
2121 PU
2123 L-BU
2125 D-GN
2127 OG
2129 BN
X126 H
G
F
C
B
E
J184
2127 RD
D
C
T8A Ignition Coil 1
T8C Ignition Coil 3
T8E Ignition Coil 5
T8G Ignition Coil 7
A
B
350 BK
J182
G102

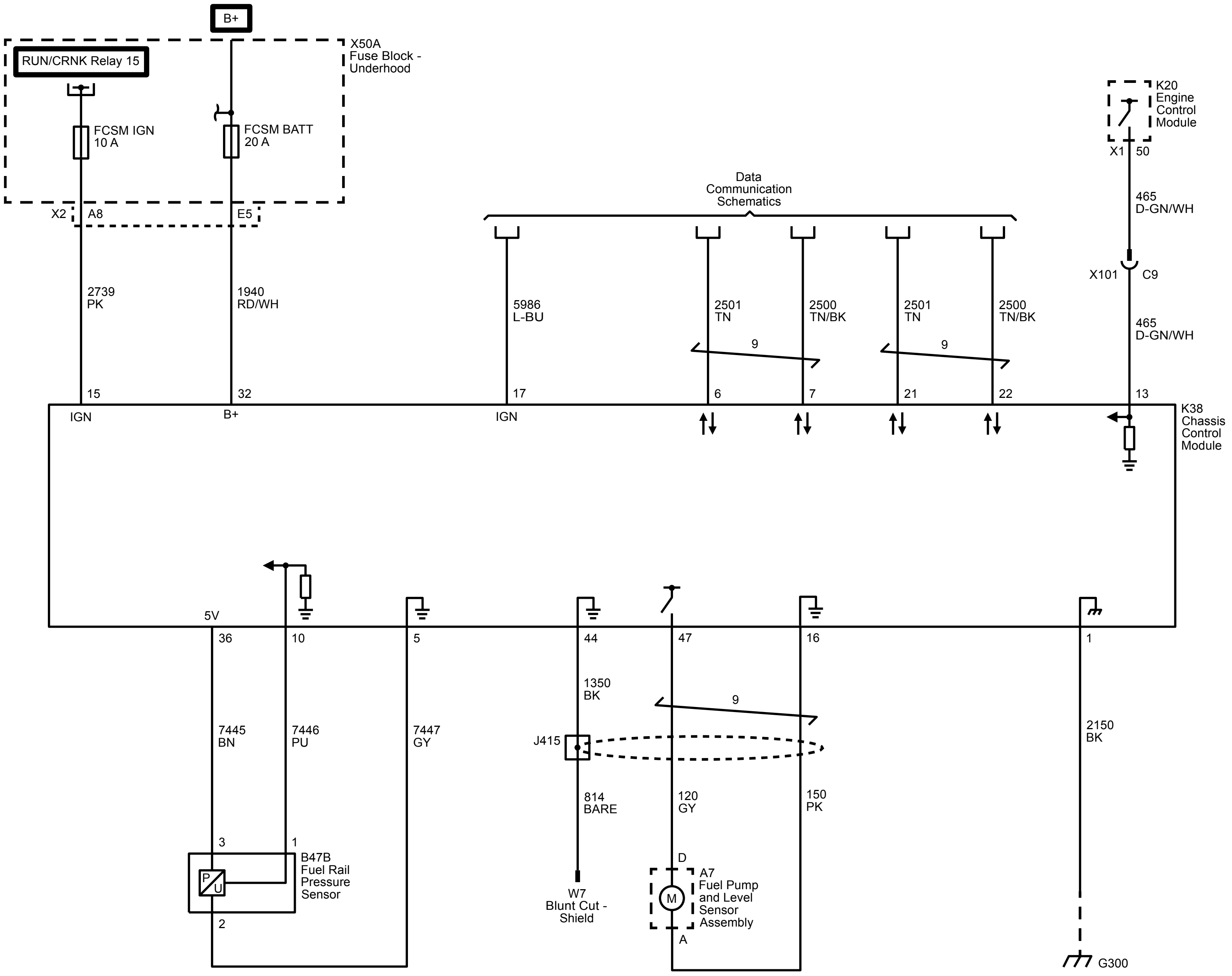
Ignition Controls - Ignition System Coils 2, 4, 6, and 8


X50A
Fuse Block -
Underhood
PWR/TRN Relay 49
EVEN ING/
INJ
20 A
X1
J1
K20
Engine
Control
Module
X2
73
76
74
71
79
1239
PK
2122
OG/WH
2124
D-GN/WH
2126
L-BU/WH
2128
PU/WH
2130
BN/WH
X127
H
B
C
F
G
E
1239
PK
J185
1239
PK
2122
RD
1239
PK
2124
D-GN
1239
PK
2126
L-BU
1239
PK
2128
PU
2130
BN
D
C
T8B
Ignition
Coil 2
D
C
T8D
Ignition
Coil 4
D
C
T8F
Ignition
Coil 6
D
C
T8H
Ignition
Coil 8
A
B
A
B
A
B
A
B
350
BK
2130
BN
350
BK
2130
BN
350
BK
2130
BN
350
BK
2130
BN
J188
G102

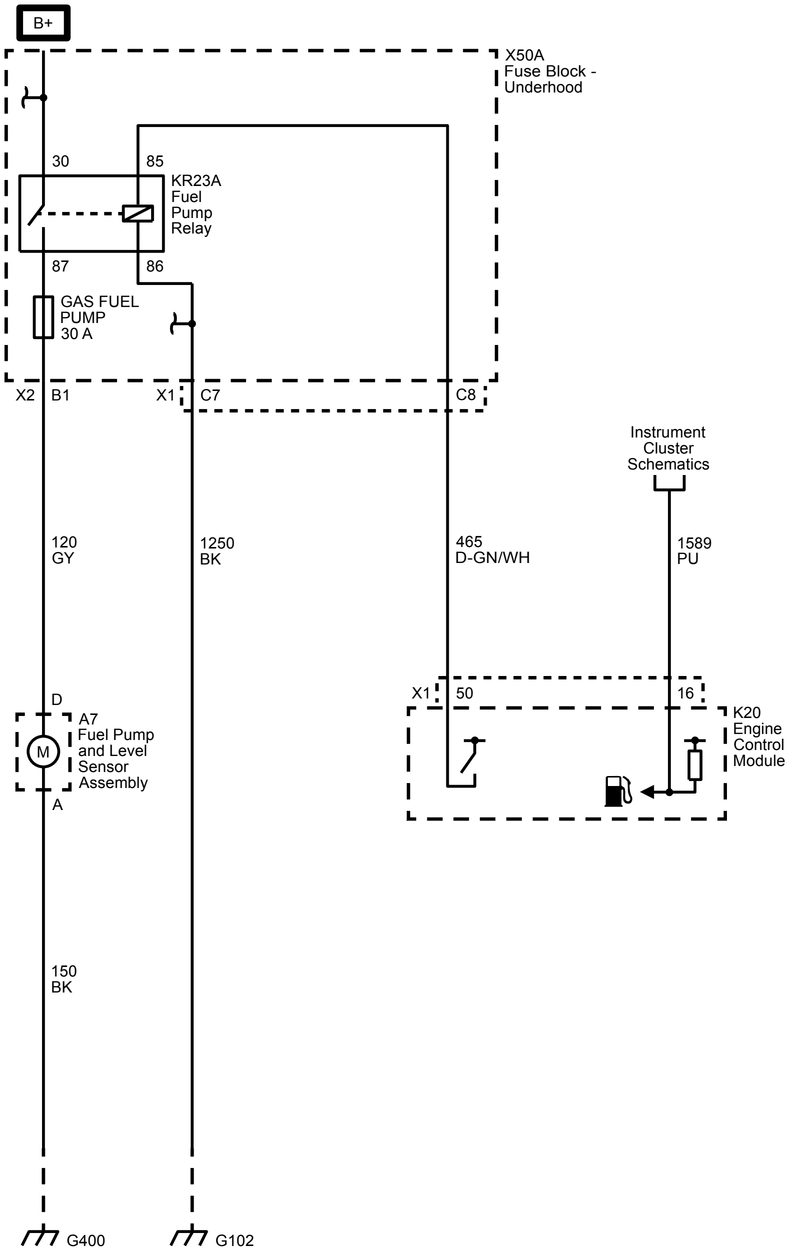
Ignition Controls - CKP, CMP and Knock Sensors

LOC
DESC

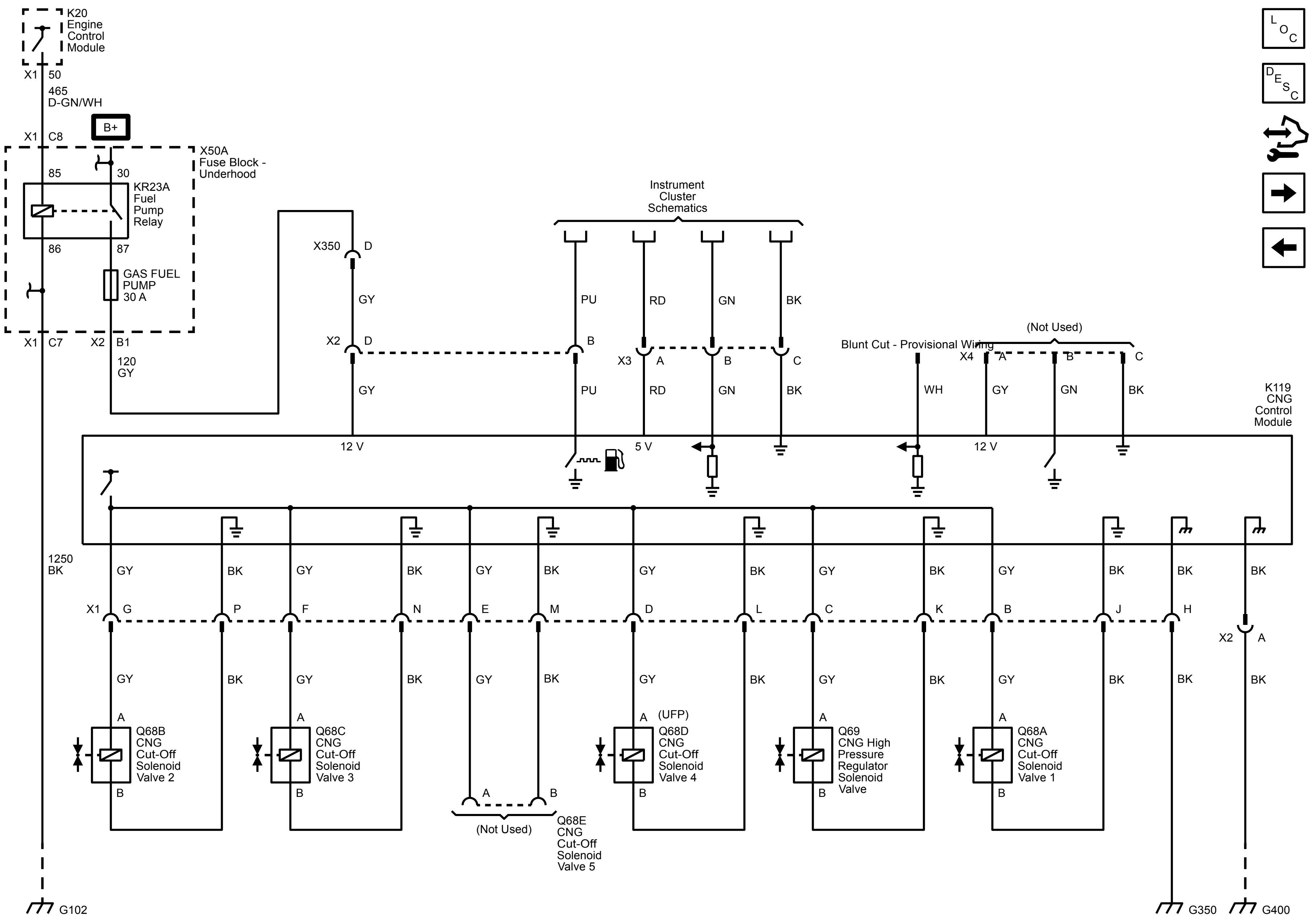

K20
Engine
Control
Module
5V2
5V1
X2
2
16
44
L96/LC8
5284
PU
6259
D-BU
6270
PU/WH
X177
D
A
5284
PU
6259
D-BU
C
2
A
B26
Crankshaft
Position
Sensor
Q6
Camshaft
Position
Actuator
Solenoid
Valve
B23
Camshaft
Position
Sensor
B
A
1
B
C
A
B68A
Knock
Sensor 1
A
B68B
Knock
Sensor 2
B
B
9
9
2199
TN
6266
BN
6265
D-BU/WH
X177
E
B
C
496
D-BU
1716
GY
1876
L-BU
2303
GY
6272
GY/BK
6271
WH/BK
2199
TN
6266
BN
6265
D-BU/WH
X2
26
27
29
30
69
68
52
66
64
K20
Engine
Control
Module


B+
RUN/CRNK Relay 15
X50A Fuse Block - Underhood
FCSM IGN 10 A
FCSM BATT 20 A
X2
A8
E5
2739 PK
1940 RD/WH
Data Communication Schematics
5986 L-BU
2501 TN
2500 TN/BK
2501 TN
2500 TN/BK
9
9
K20 Engine Control Module
X1
50
465 D-GN/WH
X101
C9
465 D-GN/WH
15
32
17
6
7
21
22
13
IGN
B+
IGN
K38 Chassis Control Module
5V
36
10
5
44
47
16
1
1350 BK
9
7445 BN
7446 PU
7447 GY
J415
814 BARE
120 GY
150 PK
2150 BK
3
1
B47B Fuel Rail Pressure Sensor
P
U
2
W7 Blunt Cut - Shield
D
A7 Fuel Pump and Level Sensor Assembly
M
A
G300

Fuel Controls - Fuel Pump Controls (L20 or L96)


B+
X50A
Fuse Block -
Underhood
30
85
KR23A
Fuel
Pump
Relay
87
86
GAS FUEL
PUMP
30 A
X2
B1
X1
C7
C8
Instrument
Cluster
Schematics
120
GY
1250
BK
465
D-GN/WH
1589
PU
X1
50
16
K20
Engine
Control
Module
D
A7
Fuel Pump
and Level
Sensor
Assembly
M
A
150
BK
G400
G102

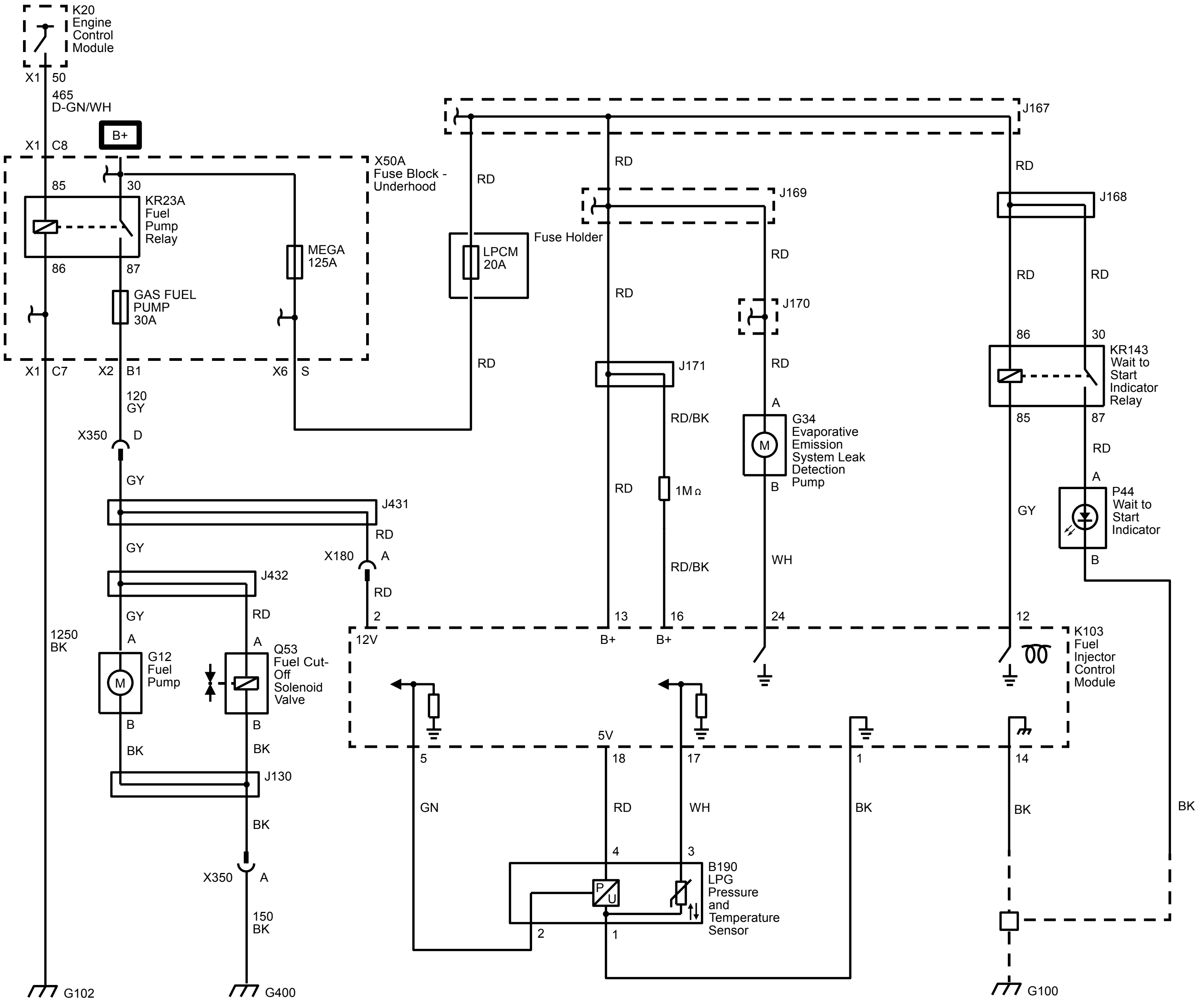
Fuel Controls - Compressed Natural Gas (LC8 with FHZ)



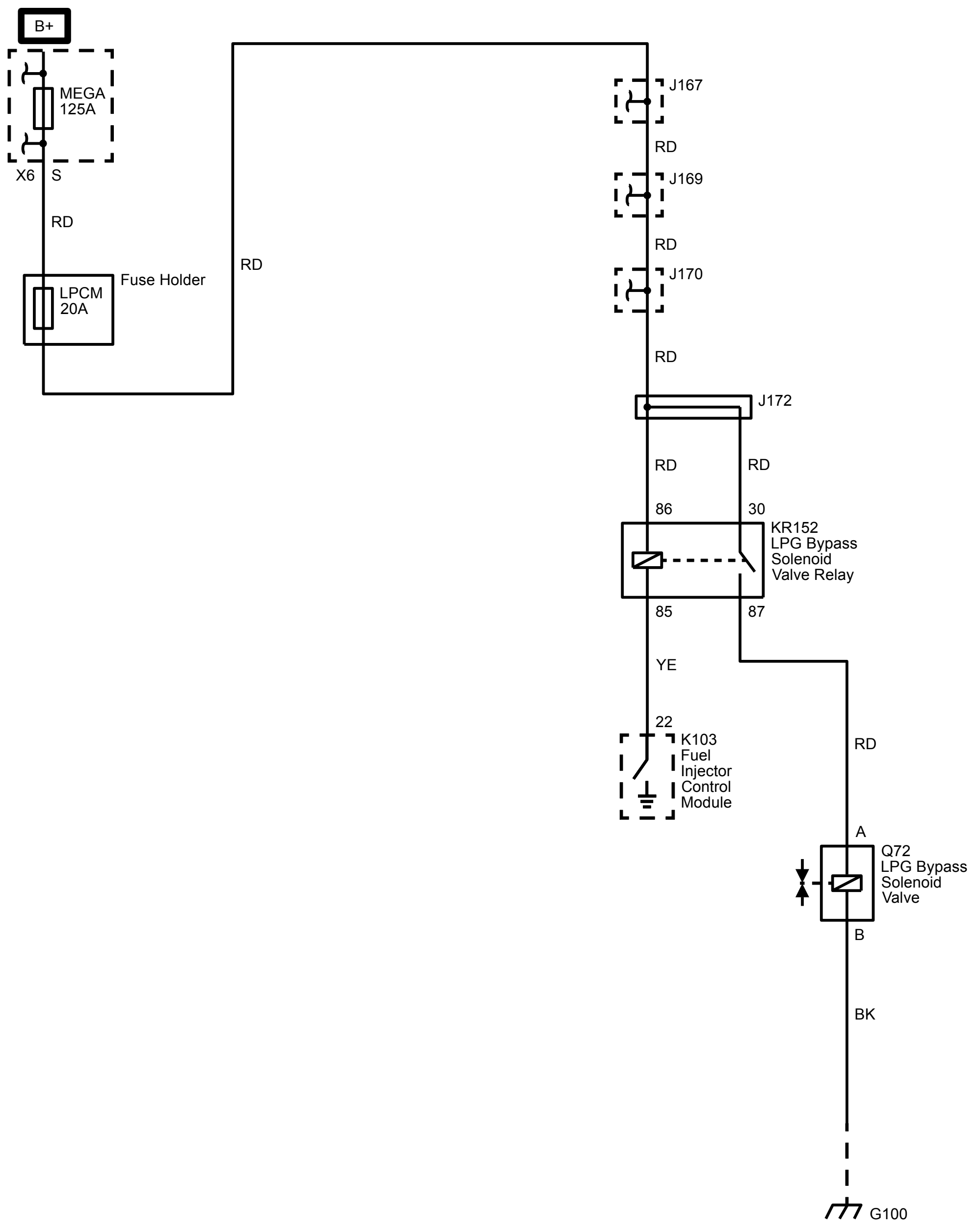
K20 Engine Control Module
X1 50
465 D-GN/WH
B+
X1 C8
X50A Fuse Block - Underhood
85
30
KR23A Fuel Pump Relay
86
87
GAS FUEL PUMP 30 A
X1 C7
X2 B1
120 GY
X350 D
GY
X2 D
GY
Instrument Cluster Schematics
PU
RD
GN
BK
B
X3 A
B
C
Blunt Cut - Provisional Wiring
(Not Used)
X4 A
B
C
WH
GY
GN
BK
K119 CNG Control Module
12 V
5 V
12 V
1250 BK
X1 G
P
F
N
E
M
D
L
C
K
B
J
H
X2 A
Q68B CNG Cut-Off Solenoid Valve 2
Q68C CNG Cut-Off Solenoid Valve 3
Q68E CNG Cut-Off Solenoid Valve 5
(Not Used)
(UFP)
Q68D CNG Cut-Off Solenoid Valve 4
Q69 CNG High Pressure Regulator Solenoid Valve
Q68A CNG Cut-Off Solenoid Valve 1
G102
G350
G400

Fuel Controls - LPG Fuel Controls (KO7 with UFM)

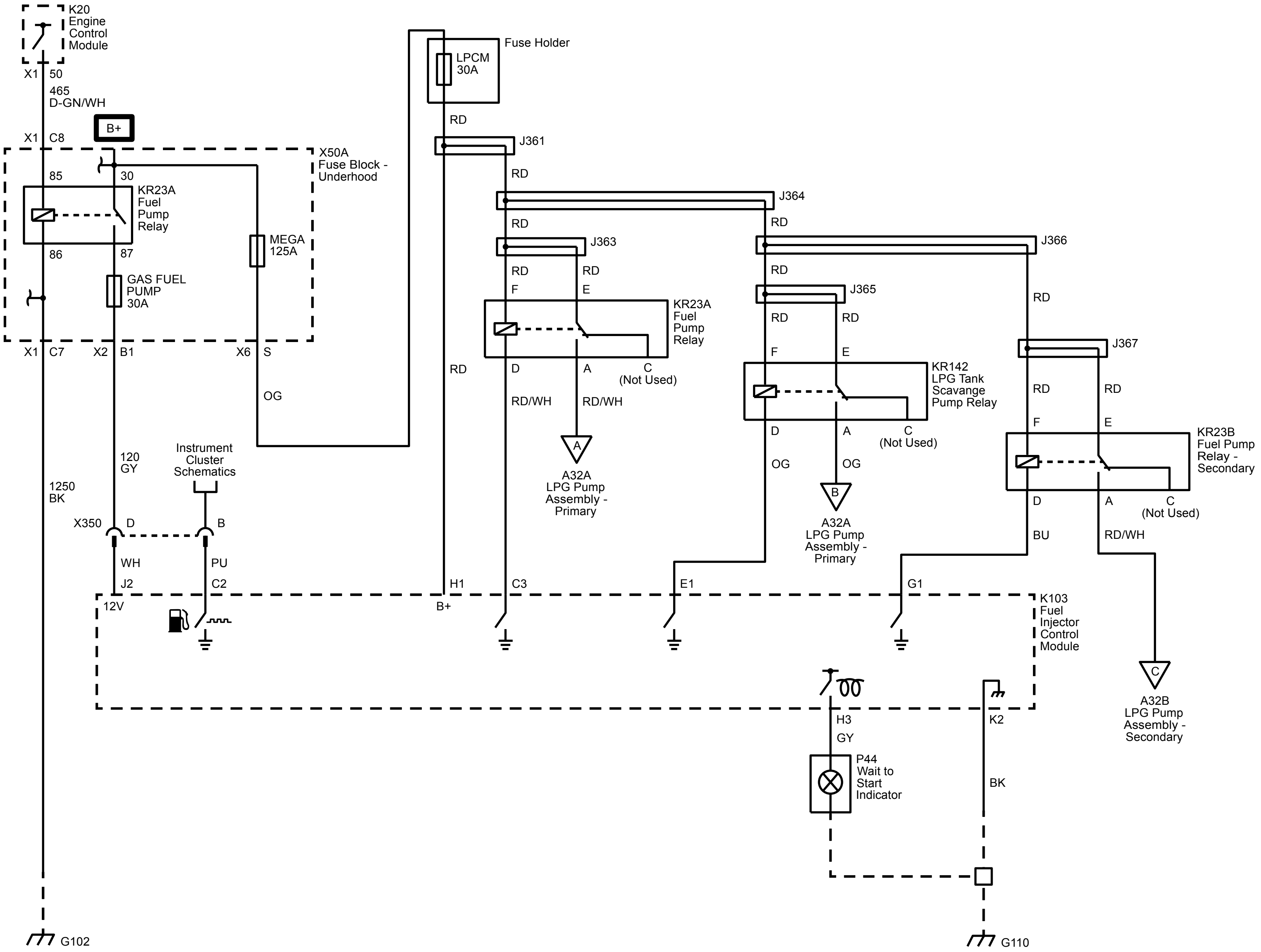
LOC
DESC


K20
Engine
Control
Module
X1
50
465
D-GN/WH
B+
X1
C8
X50A
Fuse Block -
Underhood
85
30
KR23A
Fuel
Pump
Relay
86
87
MEGA
125A
GAS FUEL
PUMP
30A
X1
C7
X2
B1
X6
S
120
GY
X350
D
GY
J431
RD
X180
A
RD
GY
J432
GY
RD
1250
BK
A
G12
Fuel
Pump
M
A
Q53
Fuel Cut-
Off
Solenoid
Valve
B
B
BK
BK
J130
BK
X350
A
150
BK
G102
G400
J167
RD
RD
RD
LPCM
20A
Fuse Holder
RD
J169
RD
J168
RD
RD
RD
J170
RD
86
30
KR143
Wait to
Start
Indicator
Relay
J171
A
RD/BK
G34
Evaporative
Emission
System Leak
Detection
Pump
M
85
87
RD
A
RD
1M Ω
B
GY
P44
Wait to
Start
Indicator
RD/BK
WH
B
2
12V
13
B+
16
B+
24
12
K103
Fuel
Injector
Control
Module
5V
5
18
17
1
14
GN
RD
WH
BK
BK
BK
4
3
B190
LPG
Pressure
and
Temperature
Sensor
P
U
2
1
G100

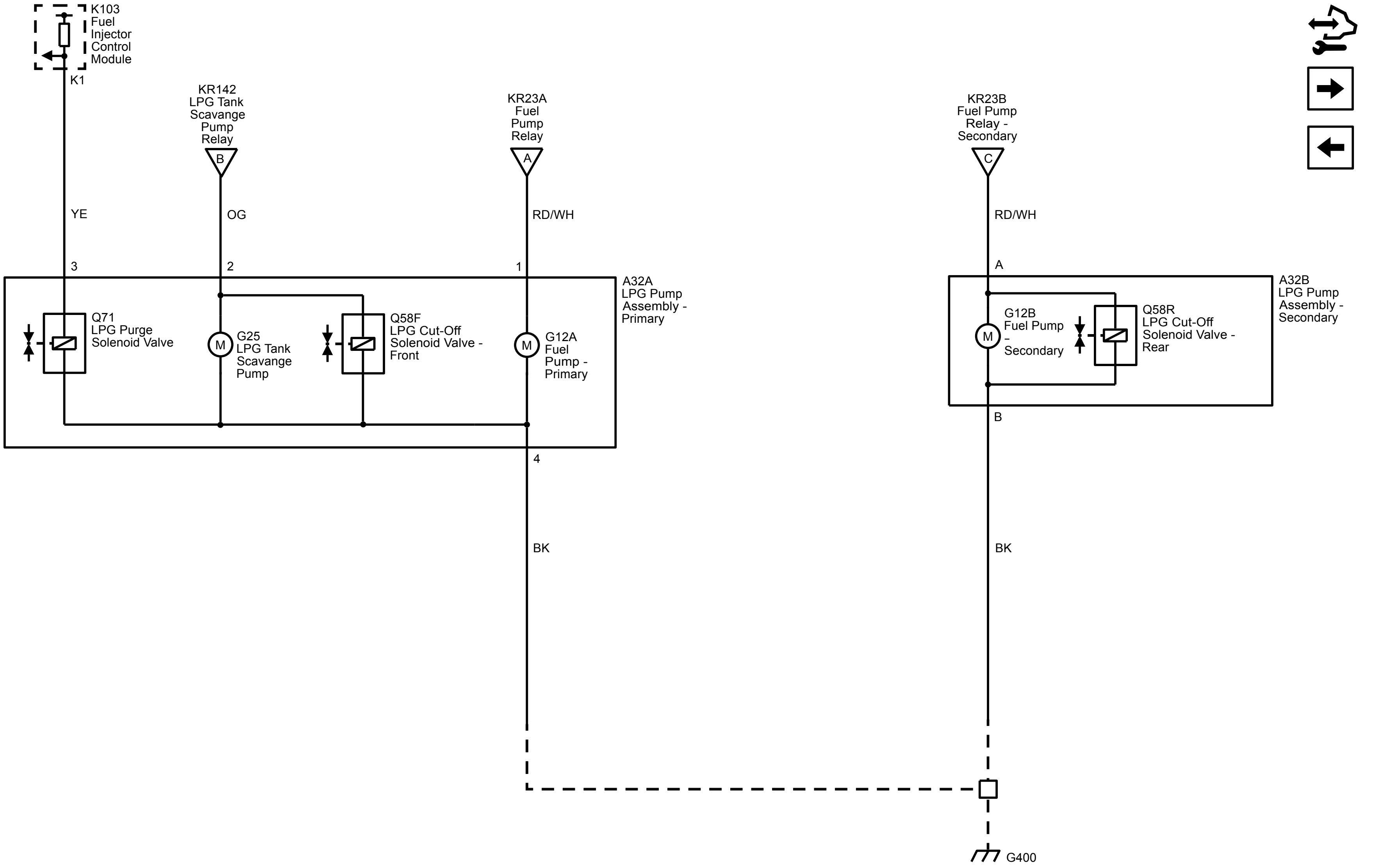
Fuel Controls - LPG Bypass Solenoid (KO7 with UFM)


B+
MEGA 125A
X6
S
RD
LPCM 20A
Fuse Holder
RD
J167
RD
J169
RD
J170
RD
J172
RD
RD
86
30
KR152 LPG Bypass Solenoid Valve Relay
85
87
YE
22
K103 Fuel Injector Control Module
RD
A
Q72 LPG Bypass Solenoid Valve
B
BK
G100

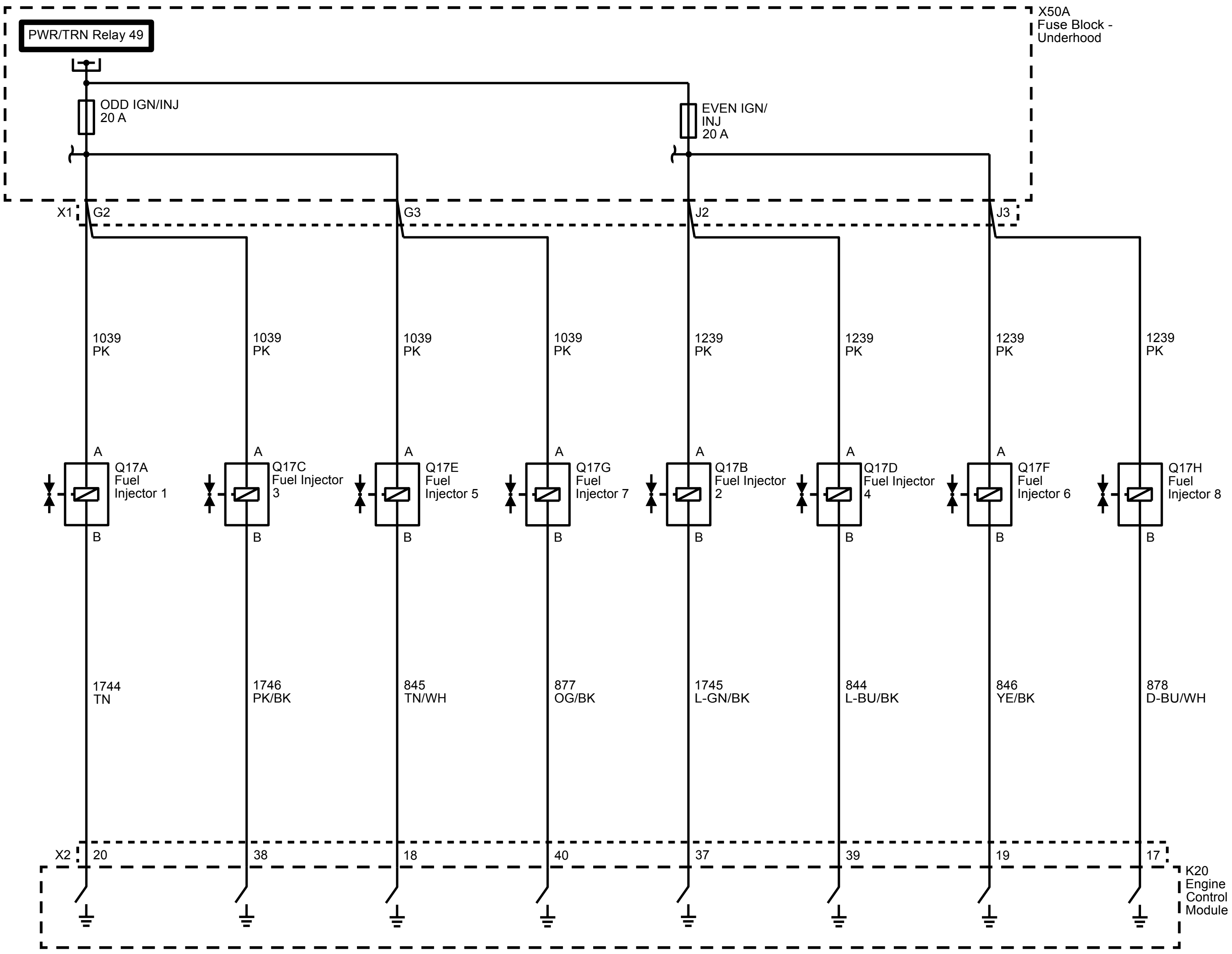
Fuel Controls - Liquefied Petroleum Gas (KO7 with UFP) 1 of 2


K20
Engine
Control
Module
X1 50
465
D-GN/WH
B+
X1 C8
X50A
Fuse Block -
Underhood
85
30
KR23A
Fuel
Pump
Relay
86
87
MEGA
125A
GAS FUEL
PUMP
30A
X1 C7
X2 B1
X6 S
OG
120
GY
1250
BK
Instrument
Cluster
Schematics
X350 D
B
WH
PU
J2
C2
12V
Fuse Holder
LPCM
30A
RD
J361
RD
J364
RD
J363
RD
RD
F
E
KR23A
Fuel
Pump
Relay
RD
D
A
C
(Not Used)
RD/WH
RD/WH
A
A32A
LPG Pump
Assembly -
Primary
H1
B+
C3
RD
J366
RD
J365
RD
RD
F
E
KR142
LPG Tank
Scavange
Pump Relay
D
A
C
(Not Used)
OG
OG
B
A32A
LPG Pump
Assembly -
Primary
E1
RD
J367
RD
RD
F
E
KR23B
Fuel Pump
Relay -
Secondary
D
A
C
(Not Used)
BU
RD/WH
G1
K103
Fuel
Injector
Control
Module
C
A32B
LPG Pump
Assembly -
Secondary
H3
GY
K2
P44
Wait to
Start
Indicator
BK
G102
G110

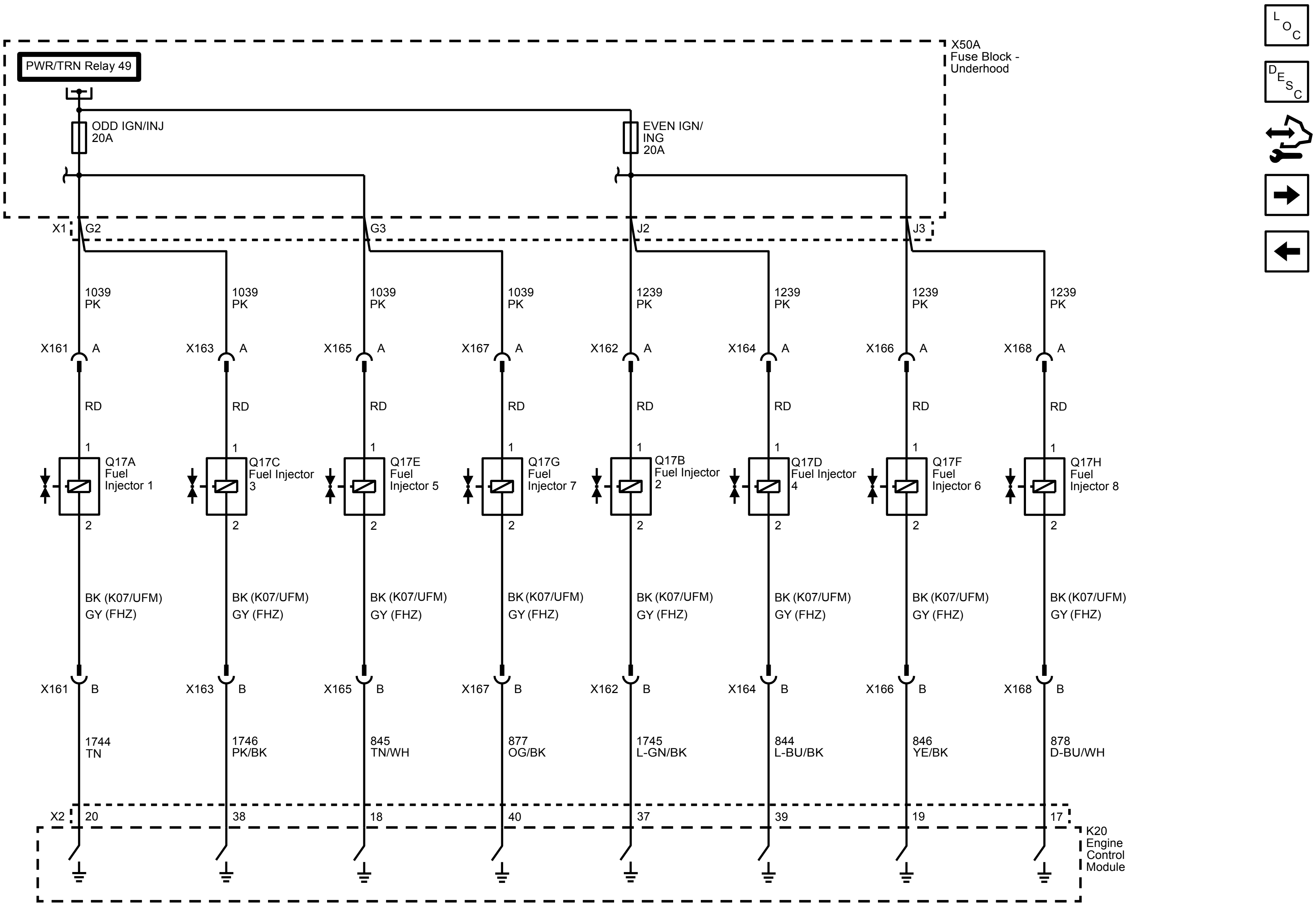
Fuel Controls - Liquefied Petroleum Gas (KO7 with UFP) 2 of 2


K103
Fuel
Injector
Control
Module
K1
YE
3
KR142
LPG Tank
Scavange
Pump
Relay
B
OG
2
KR23A
Fuel
Pump
Relay
A
RD/WH
1
A32A
LPG Pump
Assembly -
Primary
Q71
LPG Purge
Solenoid Valve
M
G25
LPG Tank
Scavange
Pump
Q58F
LPG Cut-Off
Solenoid Valve -
Front
M
G12A
Fuel
Pump -
Primary
4
BK
KR23B
Fuel Pump
Relay -
Secondary
C
RD/WH
A
A32B
LPG Pump
Assembly -
Secondary
M
G12B
Fuel Pump
-
Secondary
Q58R
LPG Cut-Off
Solenoid Valve -
Rear
B
BK
G400
LOC
DESC

Fuel Controls - Fuel Injectors (LMF, L20, L96, or LC8 with KO7 and UFP)

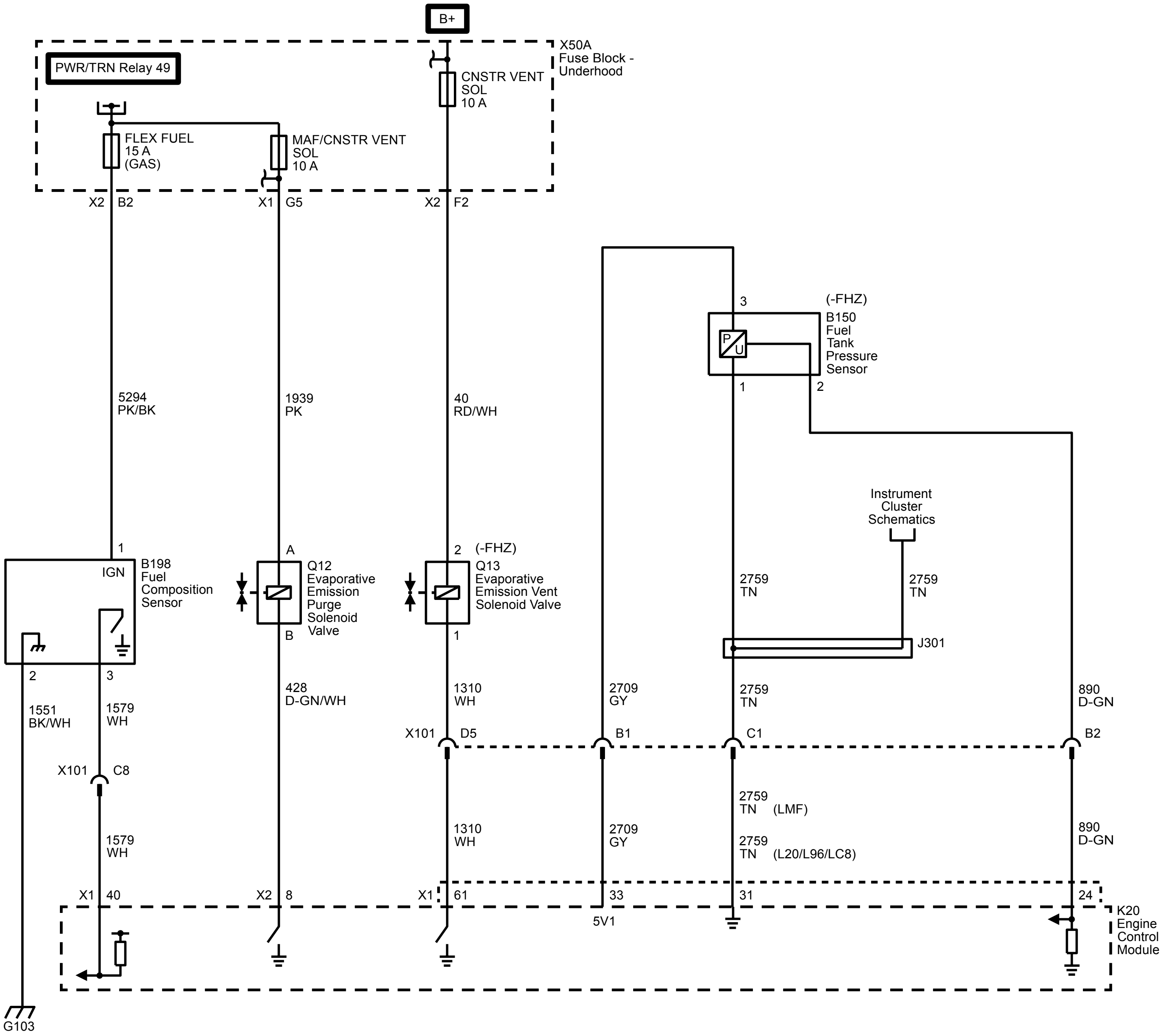

X50A
Fuse Block - Underhood
PWR/TRN Relay 49
ODD IGN/INJ
20 A
EVEN IGN/
INJ
20 A
X1
G2
G3
J2
J3
1039
PK
1239
PK
A
Q17A
Fuel
Injector 1
Q17C
Fuel Injector
3
Q17E
Fuel
Injector 5
Q17G
Fuel
Injector 7
Q17B
Fuel Injector
2
Q17D
Fuel Injector
4
Q17F
Fuel
Injector 6
Q17H
Fuel
Injector 8
B
1744
TN
1746
PK/BK
845
TN/WH
877
OG/BK
1745
L-GN/BK
844
L-BU/BK
846
YE/BK
878
D-BU/WH
X2
20
38
18
40
37
39
19
17
K20
Engine
Control
Module

Fuel Controls - Fuel Injectors (FHZ, or KO7 with UFM)

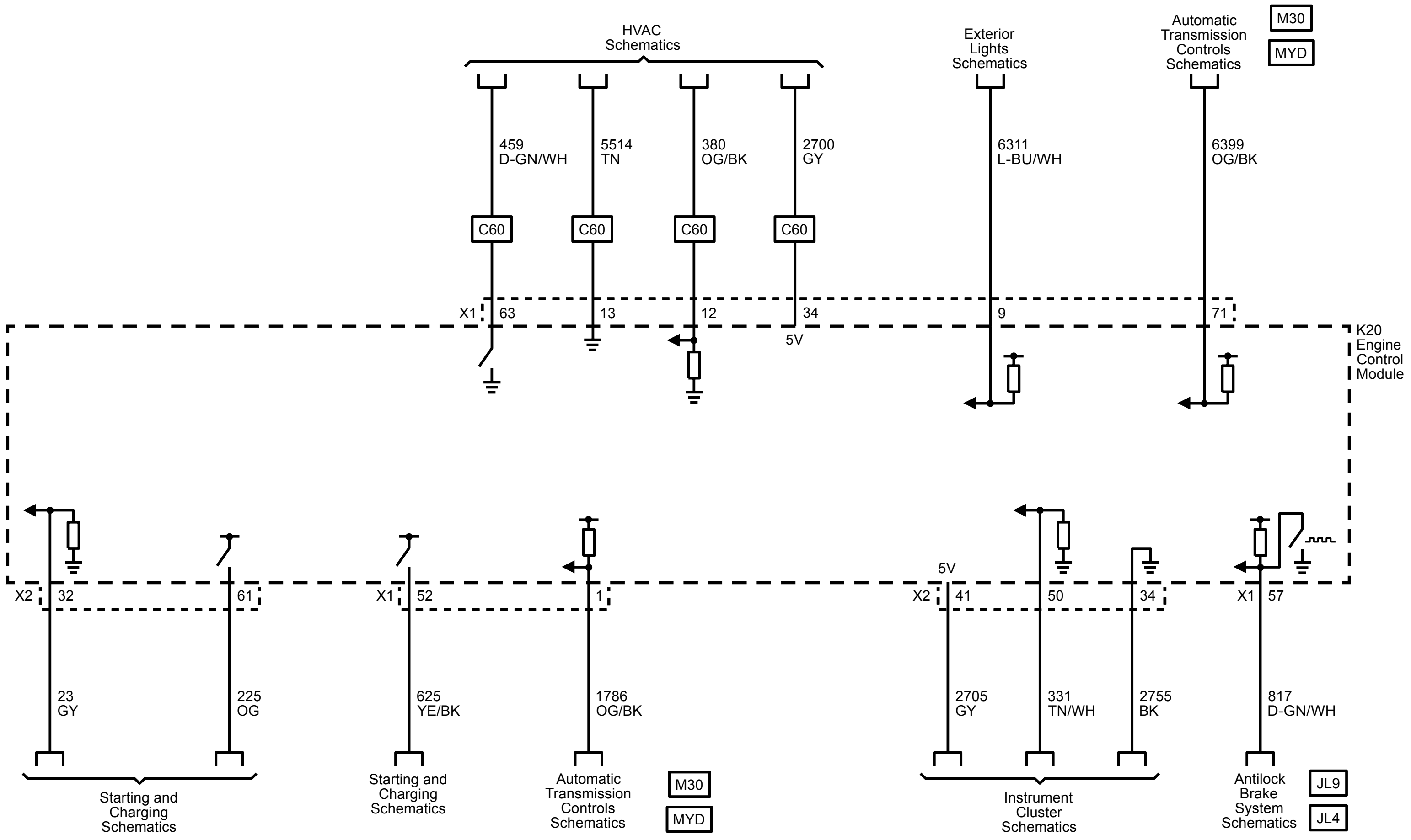

X50A
Fuse Block -
Underhood
PWR/TRN Relay 49
ODD IGN/INJ
20A
EVEN IGN/
ING
20A
X1
G2
G3
J2
J3
1039
PK
1239
PK
X161 A
X163 A
X165 A
X167 A
X162 A
X164 A
X166 A
X168 A
RD
1
2
Q17A Fuel Injector 1
Q17C Fuel Injector 3
Q17E Fuel Injector 5
Q17G Fuel Injector 7
Q17B Fuel Injector 2
Q17D Fuel Injector 4
Q17F Fuel Injector 6
Q17H Fuel Injector 8
BK (K07/UFM)
GY (FHZ)
X161 B
X163 B
X165 B
X167 B
X162 B
X164 B
X166 B
X168 B
1744 TN
1746 PK/BK
845 TN/WH
877 OG/BK
1745 L-GN/BK
844 L-BU/BK
846 YE/BK
878 D-BU/WH
X2
20
38
18
40
37
39
19
17
K20
Engine
Control
Module
L O C
D E S C

Fuel Controls - EVAP Controls

LOC
DESC


B+
X50A
Fuse Block - Underhood
PWR/TRN Relay 49
FLEX FUEL
15 A
(GAS)
MAF/CNSTR VENT
SOL
10 A
CNSTR VENT
SOL
10 A
X2
B2
X1
G5
X2
F2
5294
PK/BK
1939
PK
40
RD/WH
3
(-FHZ)
B150
Fuel
Tank
Pressure
Sensor
P
U
1
2
Instrument
Cluster
Schematics
1
IGN
B198
Fuel
Composition
Sensor
A
Q12
Evaporative
Emission
Purge
Solenoid
Valve
B
2
(-FHZ)
Q13
Evaporative
Emission Vent
Solenoid Valve
1
2759
TN
2759
TN
J301
2
3
1551
BK/WH
1579
WH
428
D-GN/WH
1310
WH
2709
GY
2759
TN
890
D-GN
X101
D5
B1
C1
B2
X101
C8
1579
WH
1310
WH
2709
GY
2759
TN
(LMF)
2759
TN
(L20/L96/LC8)
890
D-GN
X1
40
X2
8
X1
61
33
31
24
5V1
K20
Engine
Control
Module
G103

Controlled/Monitored Subsystem References


HVAC Schematics
459 D-GN/WH
5514 TN
380 OG/BK
2700 GY
C60
C60
C60
C60
Exterior Lights Schematics
6311 L-BU/WH
Automatic Transmission Controls Schematics
M30
MYD
6399 OG/BK
X1
63
13
12
34
5V
9
71
K20 Engine Control Module
X2
32
61
X1
52
1
5V
X2
41
50
34
X1
57
23 GY
225 OG
625 YE/BK
1786 OG/BK
2705 GY
331 TN/WH
2755 BK
817 D-GN/WH
Starting and Charging Schematics
Starting and Charging Schematics
Automatic Transmission Controls Schematics
M30
MYD
Instrument Cluster Schematics
Antilock Brake System Schematics
JL9
JL4

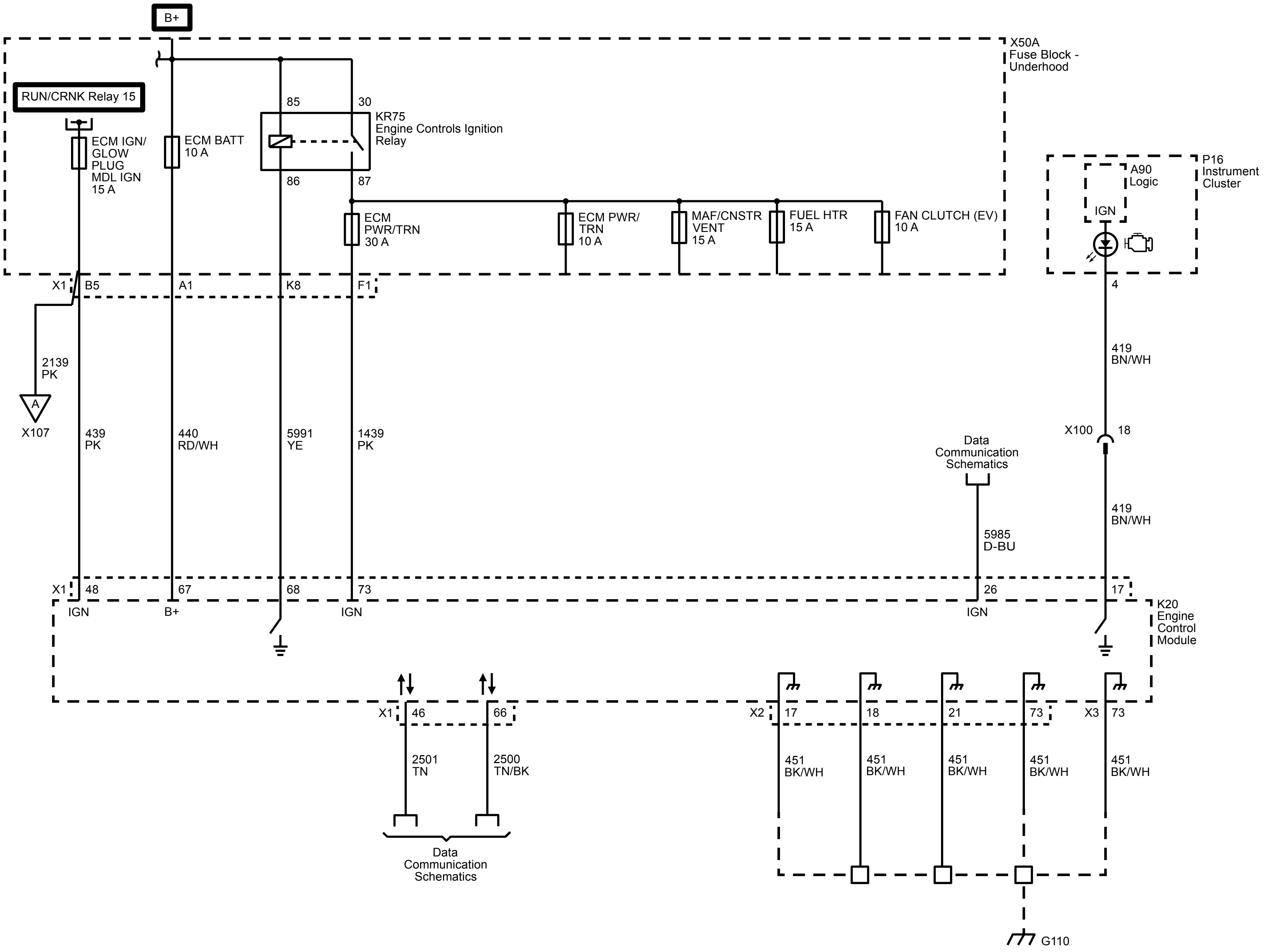
Engine/Propulsion

Engine Controls and Fuel - 6.6L (LGH)

Schematic and Routing Diagrams

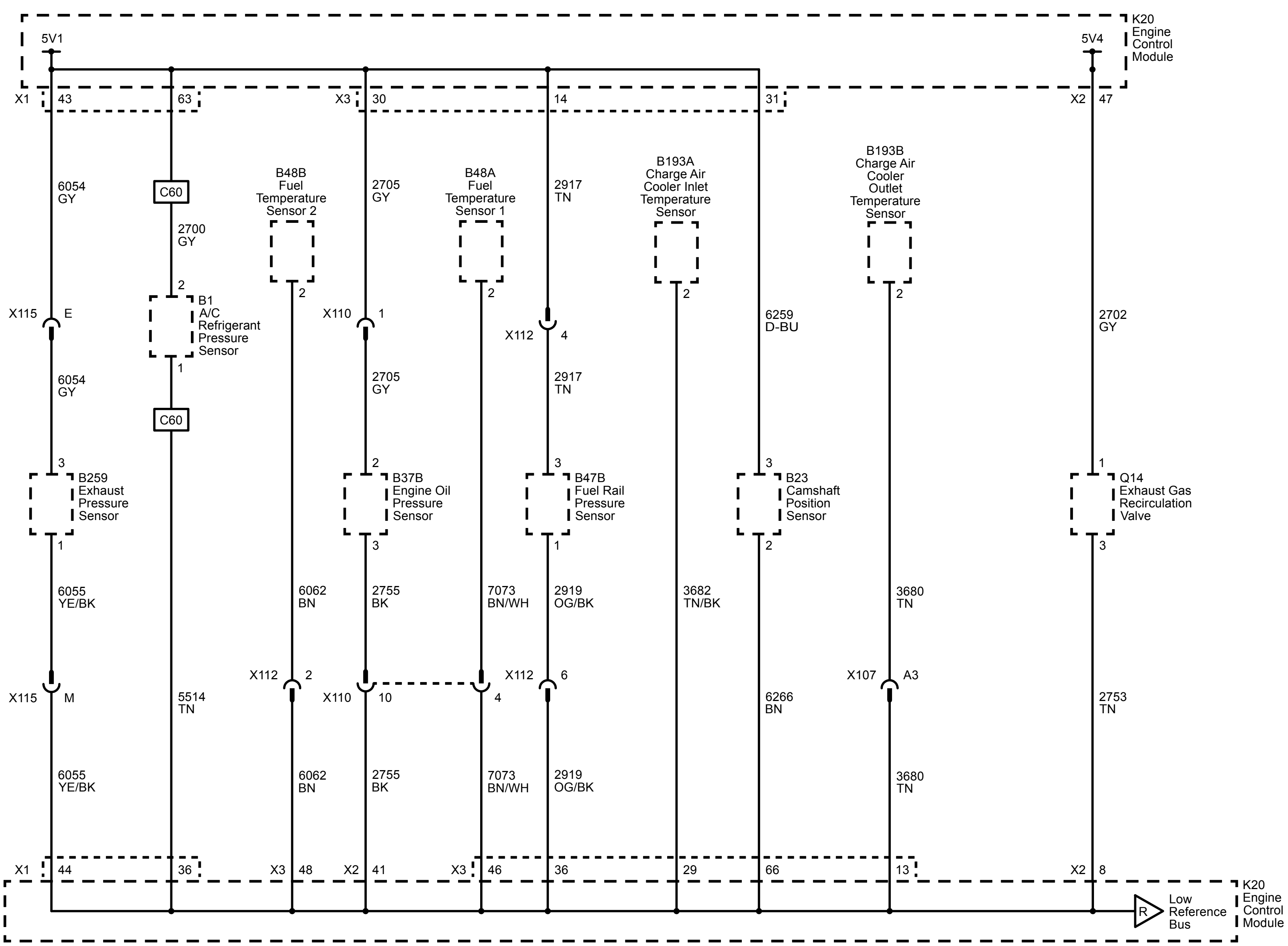
Engine Controls Schematics

Module Power, Ground, Serial Data and MIL

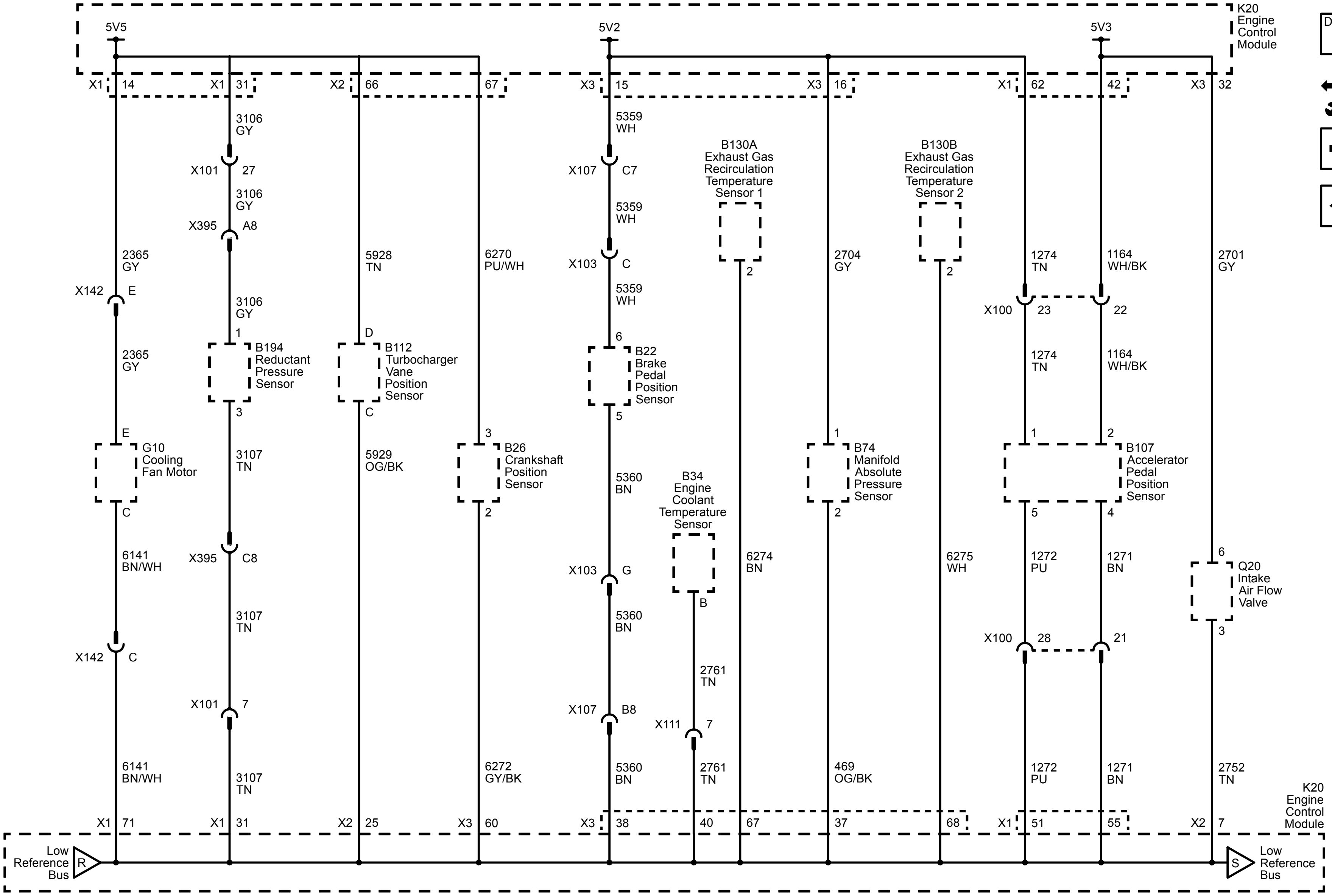


B+
X50A
Fuse Block - Underhood
RUN/CRNK Relay 15
ECM IGN/ GLOW PLUG MDL IGN 15 A
ECM BATT 10 A
85
30
86
87
KR75
Engine Controls Ignition Relay
ECM PWR/TRN 30 A
ECM PWR/ TRN 10 A
MAF/CNSTR VENT 15 A
FUEL HTR 15 A
FAN CLUTCH (EV) 10 A
X1
B5
A1
K8
F1
2139 PK
A
X107
439 PK
440 RD/WH
5991 YE
1439 PK
P16
Instrument Cluster
A90
Logic
IGN
4
419 BN/WH
X100
18
419 BN/WH
Data Communication Schematics
5985 D-BU
X1
48
67
68
73
26
17
IGN
B+
IGN
IGN
K20
Engine Control Module
X1
46
66
2501 TN
2500 TN/BK
Data Communication Schematics
X2
17
18
21
73
X3
73
451 BK/WH
451 BK/WH
451 BK/WH
451 BK/WH
451 BK/WH
G110

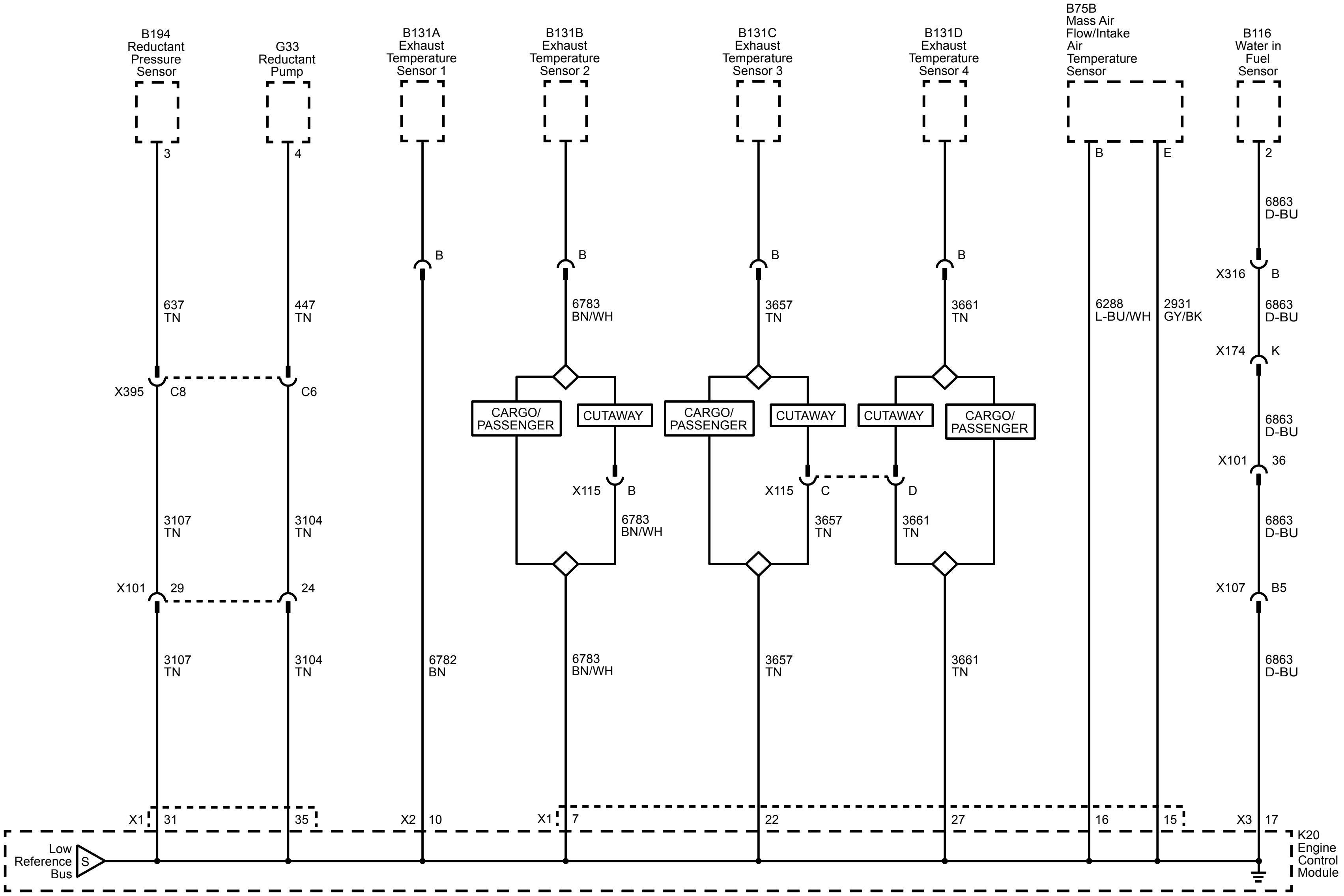
5V1, 5V4, and Low Reference Bus (1 of 3)


K20 Engine Control Module
5V1
5V4
X1
43
63
X3
30
14
31
X2
47
6054 GY
C60
2700 GY
B48B Fuel Temperature Sensor 2
2705 GY
B48A Fuel Temperature Sensor 1
2917 TN
B193A Charge Air Cooler Inlet Temperature Sensor
B193B Charge Air Cooler Outlet Temperature Sensor
2
B1 A/C Refrigerant Pressure Sensor
1
X115
E
X110
1
X112
4
6259 D-BU
2702 GY
6054 GY
2705 GY
2917 TN
C60
3
B259 Exhaust Pressure Sensor
2
B37B Engine Oil Pressure Sensor
3
B47B Fuel Rail Pressure Sensor
3
B23 Camshaft Position Sensor
1
Q14 Exhaust Gas Recirculation Valve
1
3
1
2
3
6055 YE/BK
6062 BN
2755 BK
7073 BN/WH
2919 OG/BK
3682 TN/BK
3680 TN
X112
2
X110
10
4
X112
6
X107
A3
X115
M
5514 TN
6266 BN
2753 TN
6055 YE/BK
6062 BN
2755 BK
7073 BN/WH
2919 OG/BK
3680 TN
X1
44
36
X3
48
X2
41
X3
46
36
29
66
13
X2
8
R
Low Reference Bus
K20 Engine Control Module

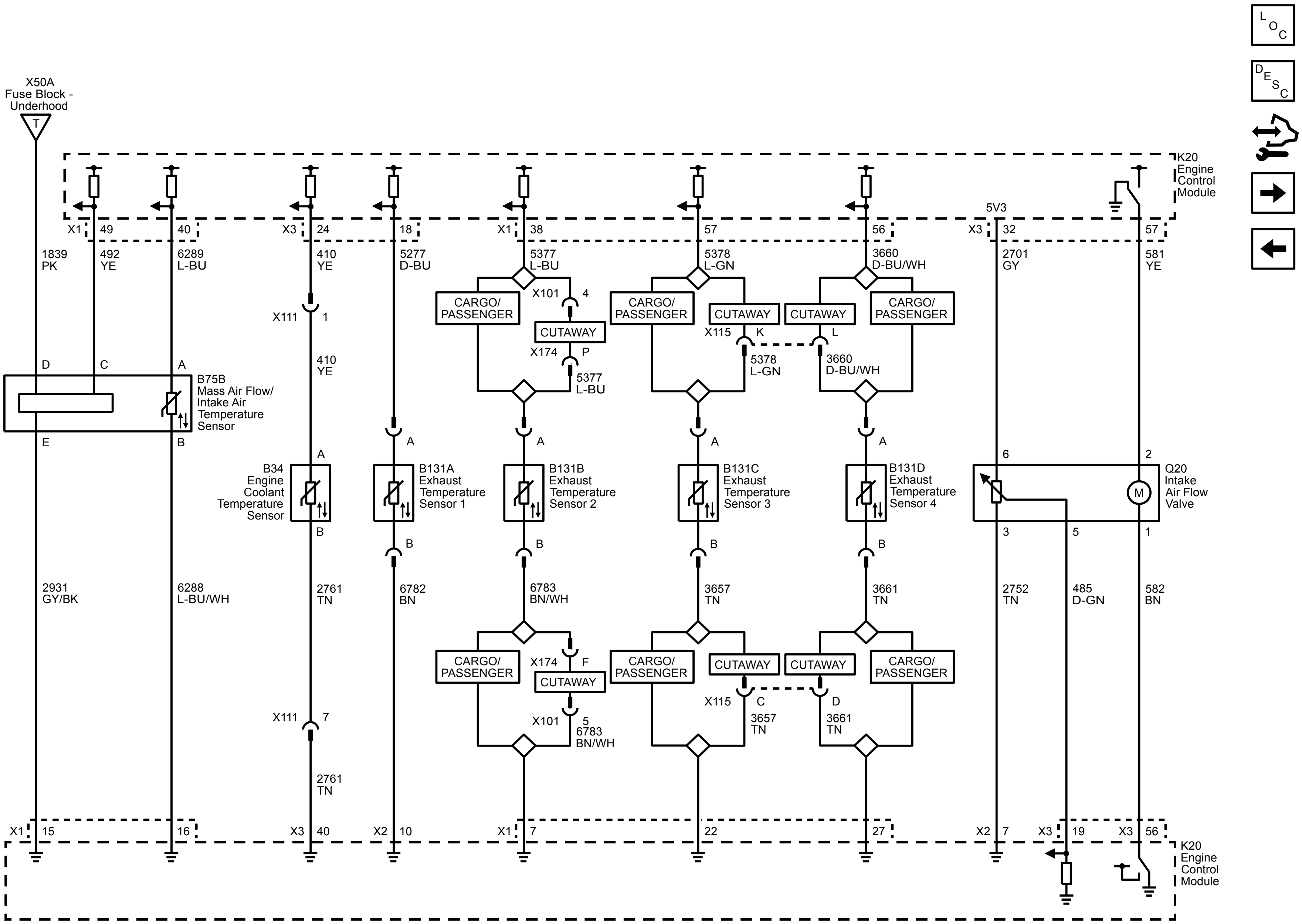
5V2, 5V3, 5V5, and Low Reference Bus (2 of 3)


K20 Engine Control Module
5V5
5V2
5V3
X1 14
X1 31
X2 66
67
X3 15
X3 16
X1 62
42
X3 32
3106 GY
X101 27
3106 GY
X395 A8
3106 GY
1
B194 Reductant Pressure Sensor
3
3107 TN
X395 C8
3107 TN
X101 7
3107 TN
2365 GY
X142 E
2365 GY
E
G10 Cooling Fan Motor
C
6141 BN/WH
X142 C
6141 BN/WH
5928 TN
D
B112 Turbocharger Vane Position Sensor
C
5929 OG/BK
6270 PU/WH
3
B26 Crankshaft Position Sensor
2
6272 GY/BK
5359 WH
X107 C7
5359 WH
X103 C
5359 WH
6
B22 Brake Pedal Position Sensor
5
5360 BN
X103 G
5360 BN
X107 B8
5360 BN
B130A Exhaust Gas Recirculation Temperature Sensor 1
2
6274 BN
B34 Engine Coolant Temperature Sensor
B
2761 TN
X111 7
2761 TN
2704 GY
1
B74 Manifold Absolute Pressure Sensor
2
469 OG/BK
B130B Exhaust Gas Recirculation Temperature Sensor 2
2
6275 WH
1274 TN
1164 WH/BK
X100 23
22
1274 TN
1164 WH/BK
1
2
B107 Accelerator Pedal Position Sensor
5
4
1272 PU
1271 BN
X100 28
21
1272 PU
1271 BN
2701 GY
6
Q20 Intake Air Flow Valve
3
2752 TN
X1 71
X1 31
X2 25
X3 60
X3 38
40
67
37
68
X1 51
55
X2 7
K20 Engine Control Module
Low Reference Bus R
S Low Reference Bus

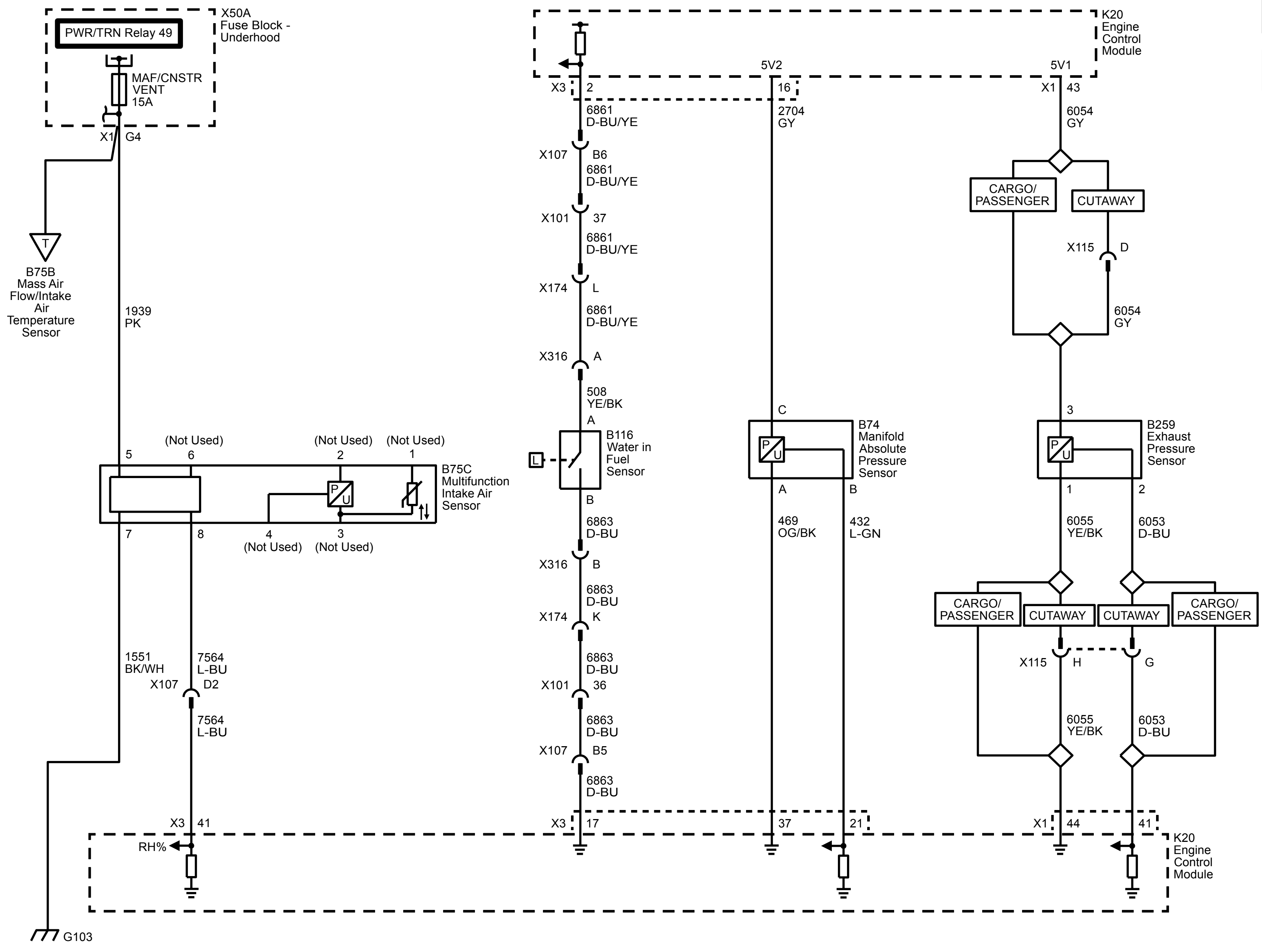
Low Reference Bus (3 of 3)


B194
Reductant
Pressure
Sensor
3
637
TN
X395
C8
3107
TN
X101
29
3107
TN
X1
31
G33
Reductant
Pump
4
447
TN
C6
3104
TN
24
3104
TN
35
B131A
Exhaust
Temperature
Sensor 1
B
6782
BN
X2
10
B131B
Exhaust
Temperature
Sensor 2
B
6783
BN/WH
CARGO/
PASSENGER
CUTAWAY
X115
B
6783
BN/WH
6783
BN/WH
X1
7
B131C
Exhaust
Temperature
Sensor 3
B
3657
TN
CARGO/
PASSENGER
CUTAWAY
X115
C
3657
TN
3657
TN
22
B131D
Exhaust
Temperature
Sensor 4
B
3661
TN
CUTAWAY
CARGO/
PASSENGER
D
3661
TN
3661
TN
27
B75B
Mass Air
Flow/Intake
Air
Temperature
Sensor
B
E
6288
L-BU/WH
2931
GY/BK
16
15
B116
Water in
Fuel
Sensor
2
6863
D-BU
X316
B
6863
D-BU
X174
K
6863
D-BU
X101
36
6863
D-BU
X107
B5
6863
D-BU
X3
17
Low
Reference
Bus
S
K20
Engine
Control
Module

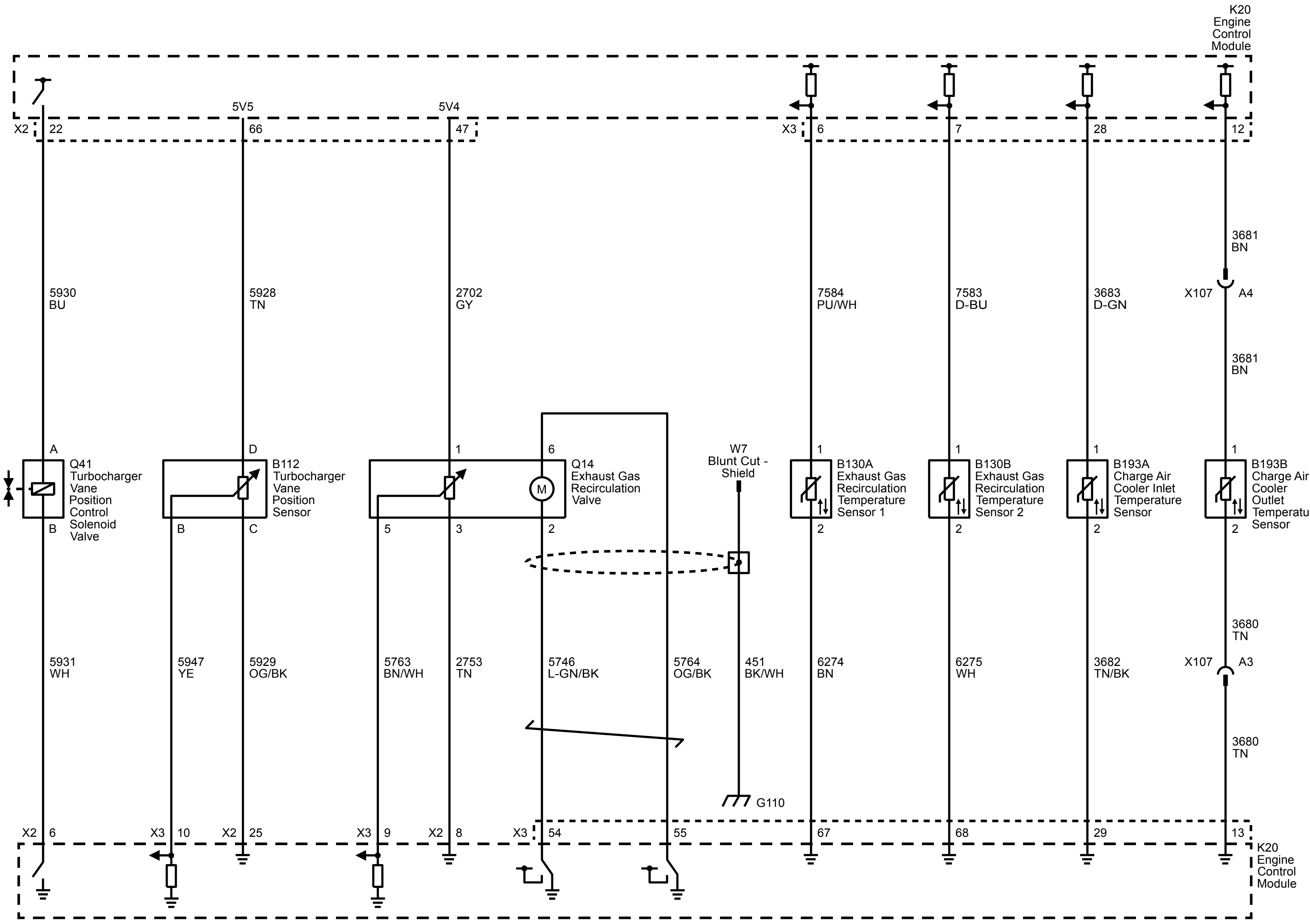
Engine Data Sensors - Temperature, AI and MAF


L O C
D E S C
X50A
Fuse Block - Underhood
T
K20
Engine
Control
Module
X1
49
40
X3
24
18
X1
38
57
56
5V3
X3
32
57
1839
PK
492
YE
6289
L-BU
410
YE
5277
D-BU
5377
L-BU
5378
L-GN
3660
D-BU/WH
2701
GY
581
YE
CARGO/
PASSENGER
X101
4
CUTAWAY
X174
P
5377
L-BU
CARGO/
PASSENGER
CUTAWAY
X115
K
5378
L-GN
CUTAWAY
L
3660
D-BU/WH
CARGO/
PASSENGER
X111
1
410
YE
D
C
A
B75B
Mass Air Flow/
Intake Air
Temperature
Sensor
E
B
A
A
A
A
A
B34
Engine
Coolant
Temperature
Sensor
B131A
Exhaust
Temperature
Sensor 1
B131B
Exhaust
Temperature
Sensor 2
B131C
Exhaust
Temperature
Sensor 3
B131D
Exhaust
Temperature
Sensor 4
6
2
Q20
Intake
Air Flow
Valve
M
B
B
B
B
B
3
5
1
2931
GY/BK
6288
L-BU/WH
2761
TN
6782
BN
6783
BN/WH
3657
TN
3661
TN
2752
TN
485
D-GN
582
BN
CARGO/
PASSENGER
X174
F
CUTAWAY
X101
5
6783
BN/WH
CARGO/
PASSENGER
CUTAWAY
X115
C
3657
TN
CUTAWAY
D
3661
TN
CARGO/
PASSENGER
X111
7
2761
TN
X1
15
16
X3
40
X2
10
X1
7
22
27
X2
7
X3
19
X3
56
K20
Engine
Control
Module

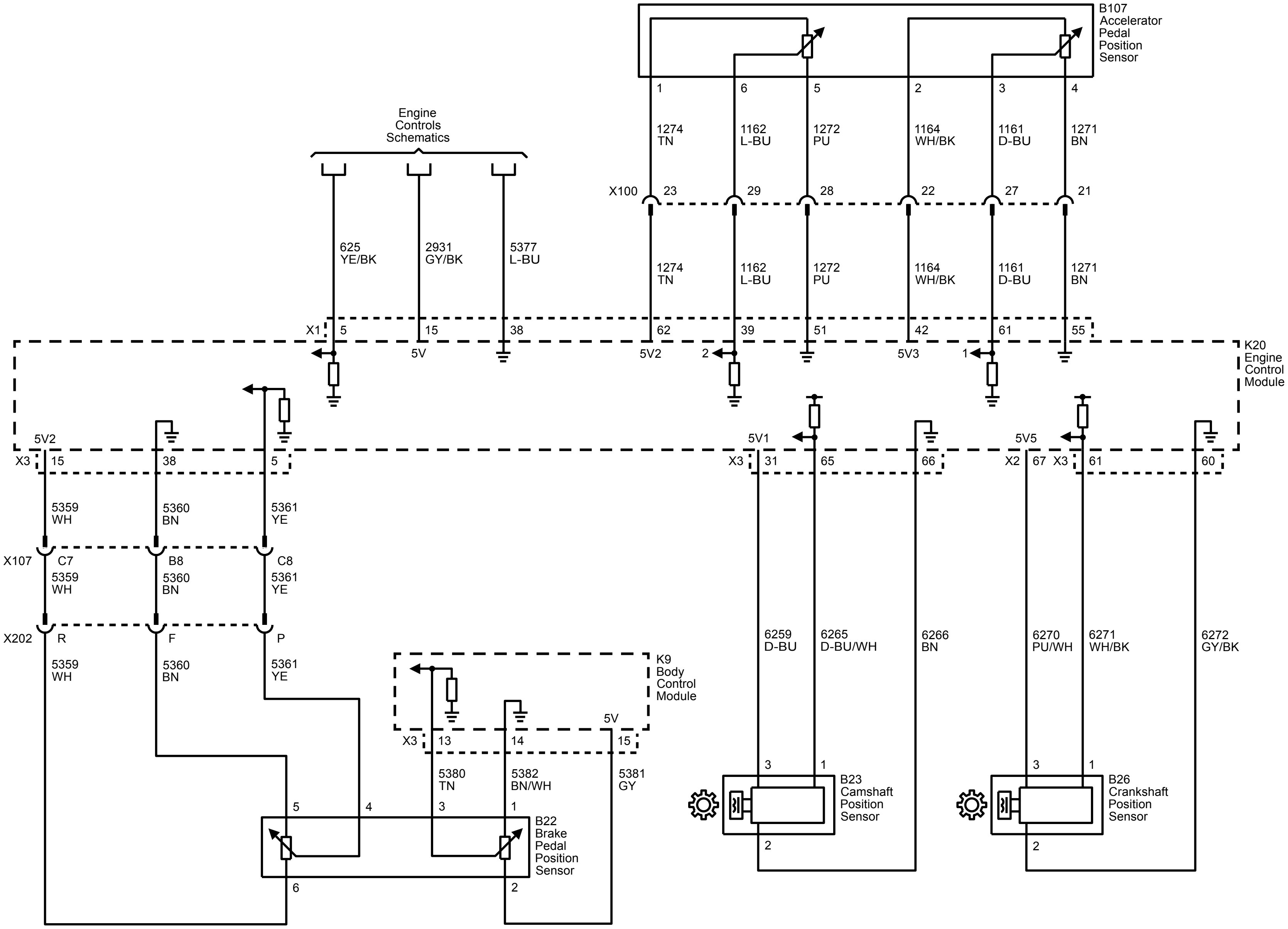
Engine Data Sensors - Pressure and WIF


PWR/TRN Relay 49
X50A
Fuse Block - Underhood
MAF/CNSTR VENT 15A
X1 G4
B75B Mass Air Flow/Intake Air Temperature Sensor
1939 PK
5
(Not Used) 6
(Not Used) 2
(Not Used) 1
B75C Multifunction Intake Air Sensor
7
8
4 (Not Used)
3 (Not Used)
1551 BK/WH
7564 L-BU
X107 D2
7564 L-BU
X3 41
RH%
G103
K20 Engine Control Module
X3 2
6861 D-BU/YE
X107 B6
6861 D-BU/YE
X101 37
6861 D-BU/YE
X174 L
6861 D-BU/YE
X316 A
508 YE/BK
A
B116 Water in Fuel Sensor
B
6863 D-BU
X316 B
6863 D-BU
X174 K
6863 D-BU
X101 36
6863 D-BU
X107 B5
6863 D-BU
X3 17
5V2
16
2704 GY
C
B74 Manifold Absolute Pressure Sensor
A
B
469 OG/BK
432 L-GN
37
21
5V1
X1 43
6054 GY
CARGO/ PASSENGER
CUTAWAY
X115 D
6054 GY
3
B259 Exhaust Pressure Sensor
1
2
6055 YE/BK
6053 D-BU
CARGO/ PASSENGER
CUTAWAY
CUTAWAY
CARGO/ PASSENGER
X115 H
G
6055 YE/BK
6053 D-BU
X1 44
41
K20 Engine Control Module
P
U
L

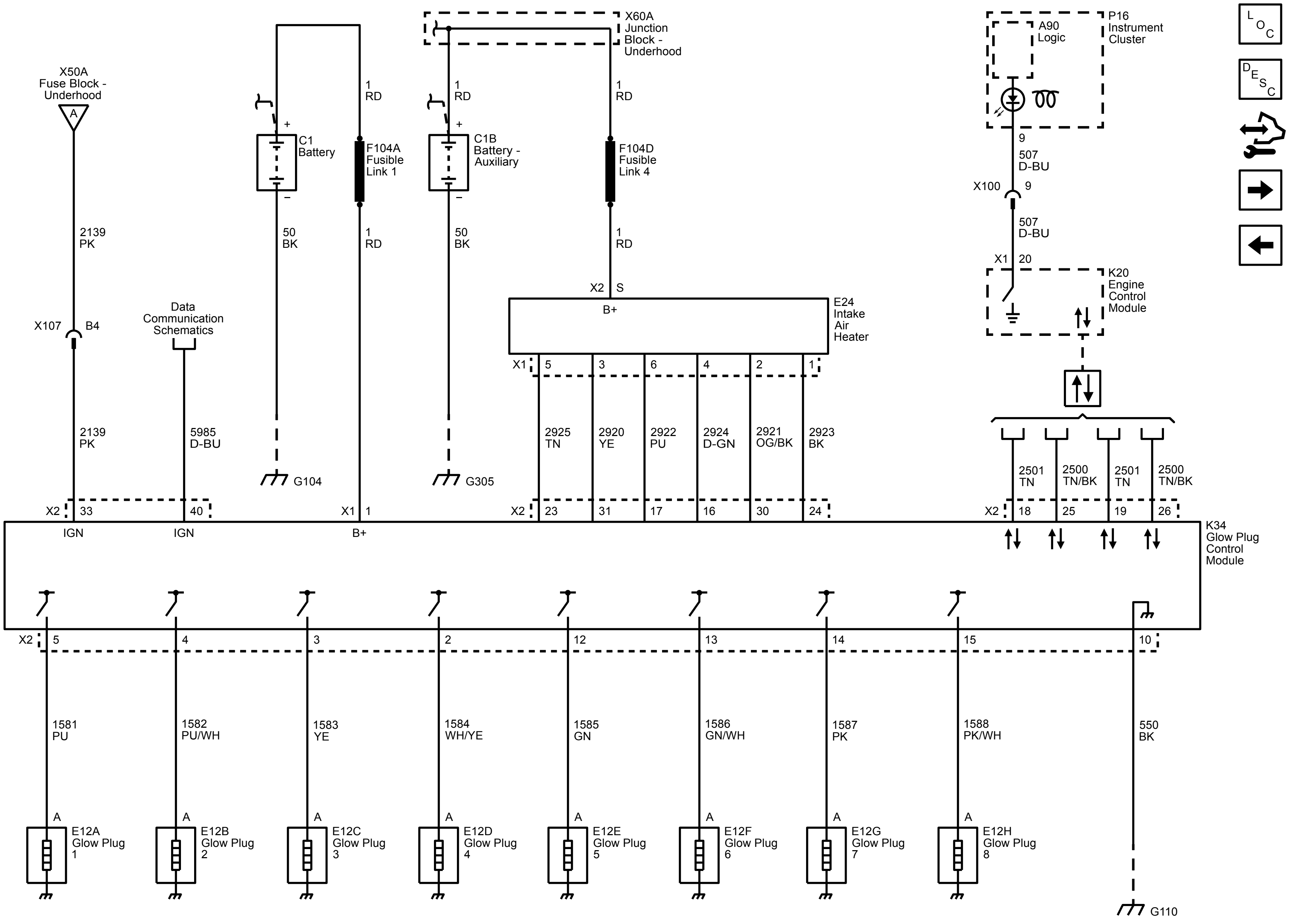
Engine Data Sensors - EGR and Turbocharger Controls


K20
Engine
Control
Module
X2 22
5V5 66
5V4 47
X3 6
7
28
12
3681
BN
X107 A4
3681
BN
5930
BU
5928
TN
2702
GY
7584
PU/WH
7583
D-BU
3683
D-GN
A
Q41
Turbocharger
Vane
Position
Control
Solenoid
Valve
B
D
B112
Turbocharger
Vane
Position
Sensor
B C
1 6
Q14
Exhaust Gas
Recirculation
Valve
M
5 3 2
W7
Blunt Cut -
Shield
1
B130A
Exhaust Gas
Recirculation
Temperature
Sensor 1
2
1
B130B
Exhaust Gas
Recirculation
Temperature
Sensor 2
2
1
B193A
Charge Air
Cooler Inlet
Temperature
Sensor
2
1
B193B
Charge Air
Cooler
Outlet
Temperature
Sensor
2
3680
TN
X107 A3
3680
TN
5931
WH
5947
YE
5929
OG/BK
5763
BN/WH
2753
TN
5746
L-GN/BK
5764
OG/BK
451
BK/WH
6274
BN
6275
WH
3682
TN/BK
G110
X2 6
X3 10
X2 25
X3 9
X2 8
X3 54
55
67
68
29
13
K20
Engine
Control
Module

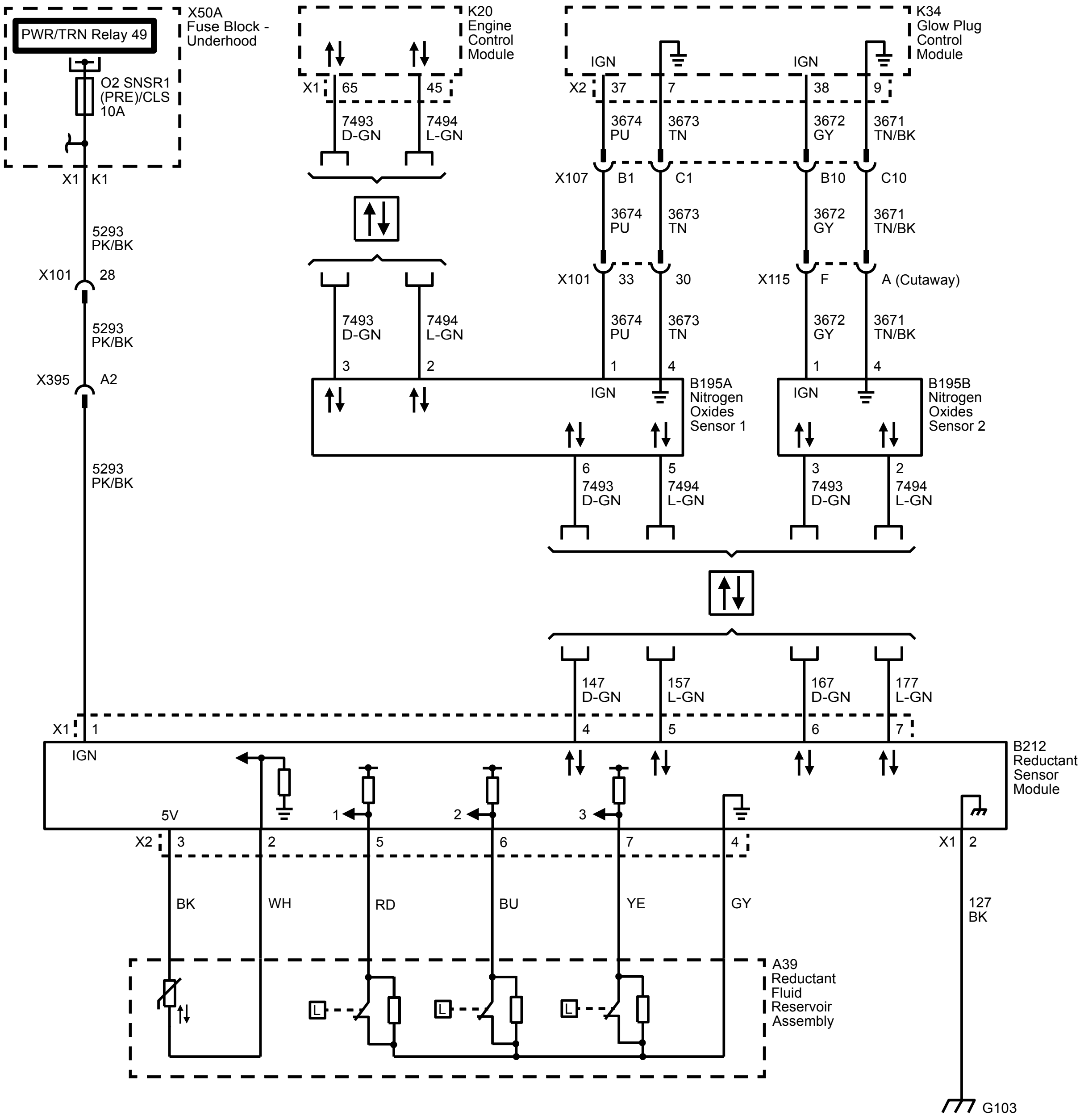
Engine Data Sensors - Pedal Position and Injector Timing


B107
Accelerator
Pedal
Position
Sensor
1
6
5
2
3
4
1274
TN
1162
L-BU
1272
PU
1164
WH/BK
1161
D-BU
1271
BN
Engine
Controls
Schematics
X100
23
29
28
22
27
21
625
YE/BK
2931
GY/BK
5377
L-BU
1274
TN
1162
L-BU
1272
PU
1164
WH/BK
1161
D-BU
1271
BN
X1
5
15
38
62
39
51
42
61
55
5V
5V2
2
5V3
1
K20
Engine
Control
Module
5V2
5V1
5V5
X3
15
38
5
X3
31
65
66
X2
67
X3
61
60
5359
WH
5360
BN
5361
YE
X107
C7
B8
C8
5359
WH
5360
BN
5361
YE
X202
R
F
P
5359
WH
5360
BN
5361
YE
6259
D-BU
6265
D-BU/WH
6266
BN
6270
PU/WH
6271
WH/BK
6272
GY/BK
K9
Body
Control
Module
5V
X3
13
14
15
5380
TN
5382
BN/WH
5381
GY
5
4
3
1
B22
Brake
Pedal
Position
Sensor
6
2
3
1
B23
Camshaft
Position
Sensor
2
3
1
B26
Crankshaft
Position
Sensor
2

Engine Data Sensors - Glow Plug Controls and Intake Air Heater

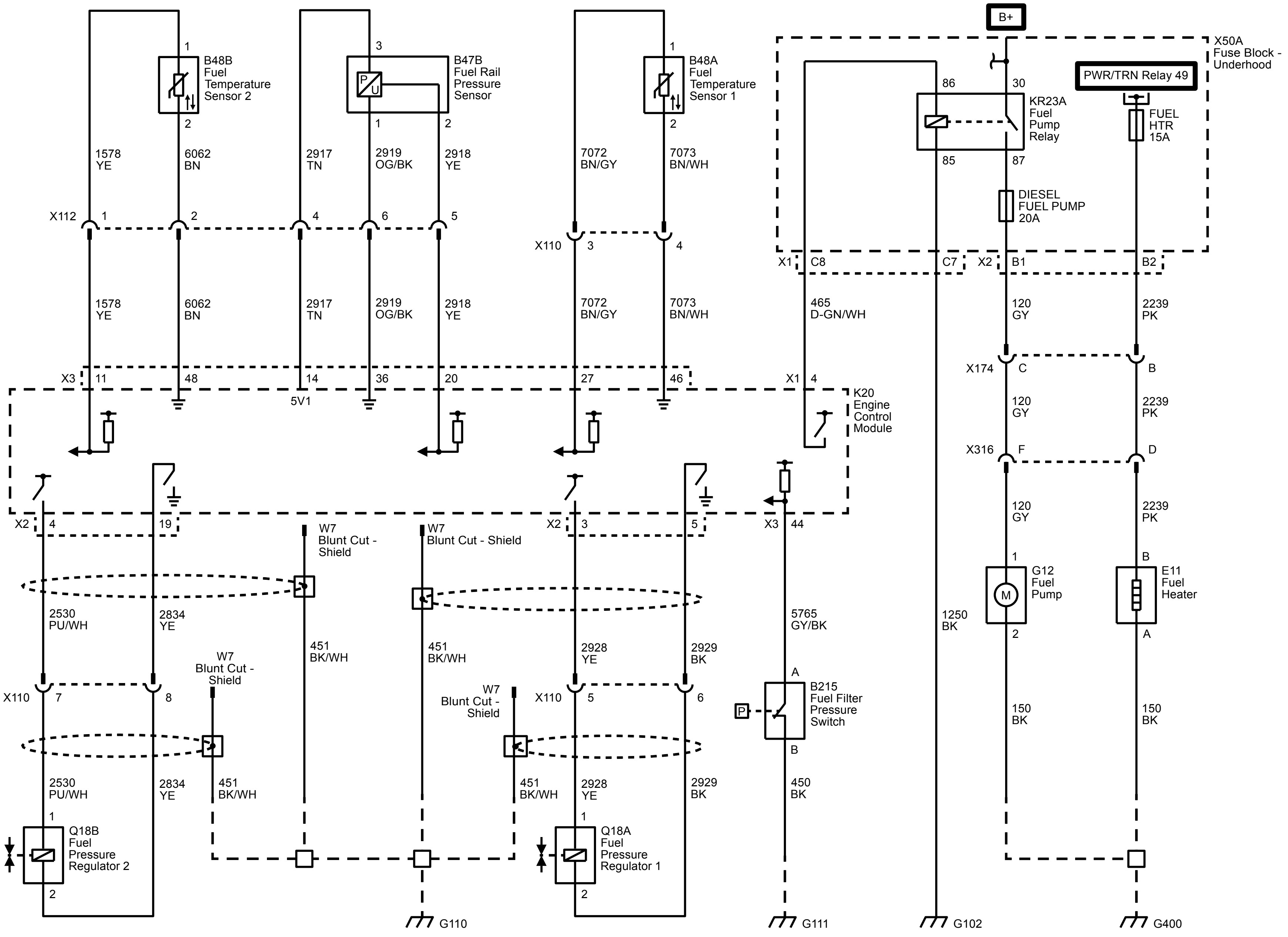

X50A
Fuse Block -
Underhood
A
2139
PK
X107
B4
2139
PK
Data
Communication
Schematics
5985
D-BU
+
C1
Battery
−
50
BK
G104
1
RD
F104A
Fusible
Link 1
1
RD
1
RD
+
C1B
Battery -
Auxiliary
−
50
BK
G305
X60A
Junction
Block -
Underhood
1
RD
F104D
Fusible
Link 4
1
RD
X2
S
B+
E24
Intake
Air
Heater
X1
5
3
6
4
2
1
2925
TN
2920
YE
2922
PU
2924
D-GN
2921
OG/BK
2923
BK
A90
Logic
P16
Instrument
Cluster
9
507
D-BU
X100
9
507
D-BU
X1
20
K20
Engine
Control
Module
2501
TN
2500
TN/BK
2501
TN
2500
TN/BK
X2
33
40
X1
1
X2
23
31
17
16
30
24
X2
18
25
19
26
IGN
IGN
B+
K34
Glow Plug
Control
Module
X2
5
4
3
2
12
13
14
15
10
1581
PU
1582
PU/WH
1583
YE
1584
WH/YE
1585
GN
1586
GN/WH
1587
PK
1588
PK/WH
550
BK
A
E12A
Glow Plug
1
A
E12B
Glow Plug
2
A
E12C
Glow Plug
3
A
E12D
Glow Plug
4
A
E12E
Glow Plug
5
A
E12F
Glow Plug
6
A
E12G
Glow Plug
7
A
E12H
Glow Plug
8
G110

Engine Data Sensors - Nitrogen Oxides and Reductant Sensor Module

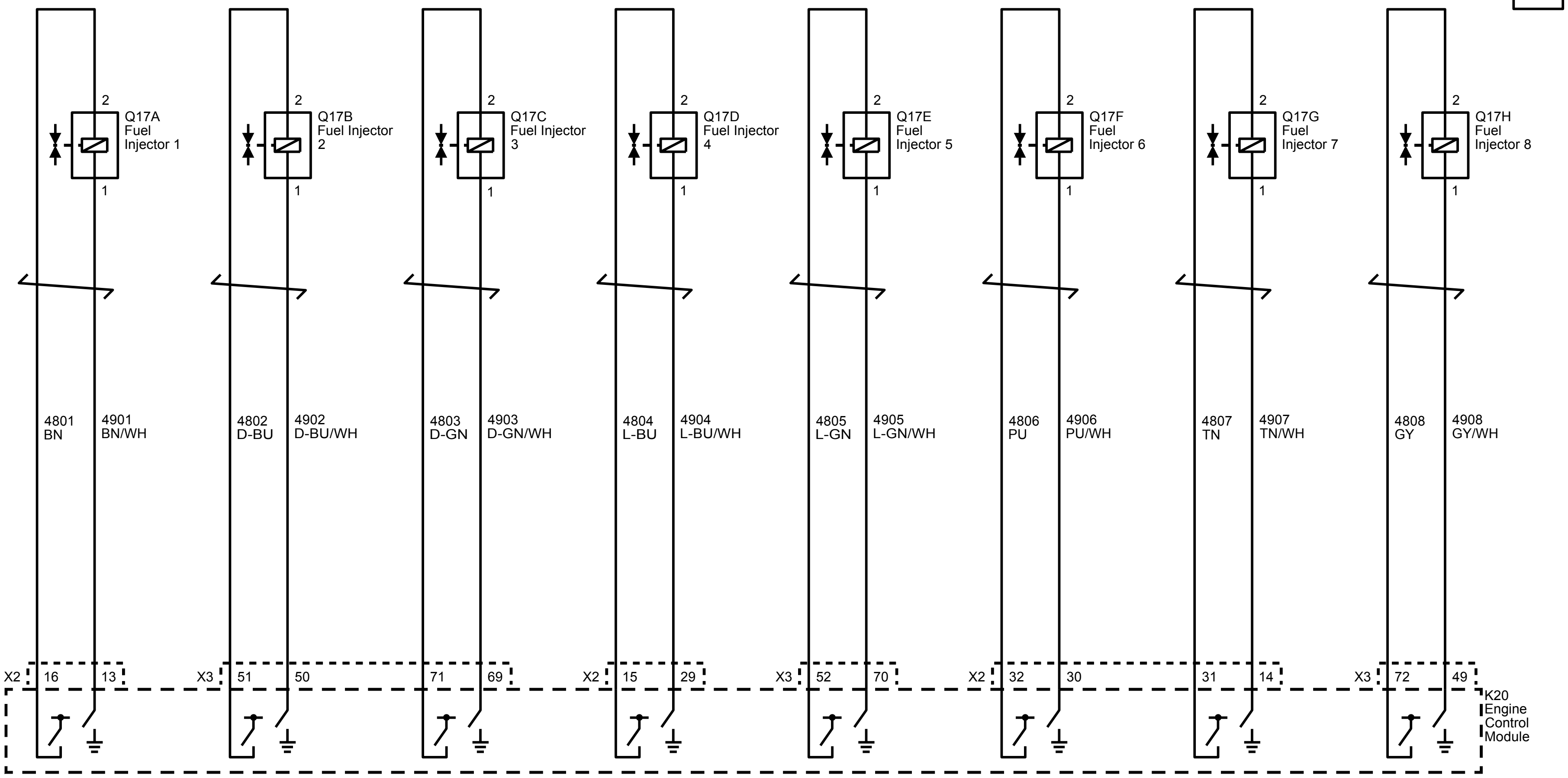


PWR/TRN Relay 49
X50A
Fuse Block -
Underhood
O2 SNSR1
(PRE)/CLS
10A
X1
K1
5293
PK/BK
X101
28
5293
PK/BK
X395
A2
5293
PK/BK
K20
Engine
Control
Module
X1
65
45
7493
D-GN
7494
L-GN
7493
D-GN
7494
L-GN
3
2
K34
Glow Plug
Control
Module
IGN
IGN
X2
37
7
38
9
3674
PU
3673
TN
3672
GY
3671
TN/BK
X107
B1
C1
B10
C10
3674
PU
3673
TN
3672
GY
3671
TN/BK
X101
33
30
X115
F
A (Cutaway)
3674
PU
3673
TN
3672
GY
3671
TN/BK
1
4
1
4
IGN
B195A
Nitrogen
Oxides
Sensor 1
IGN
B195B
Nitrogen
Oxides
Sensor 2
6
5
3
2
7493
D-GN
7494
L-GN
7493
D-GN
7494
L-GN
147
D-GN
157
L-GN
167
D-GN
177
L-GN
X1
1
4
5
6
7
IGN
B212
Reductant
Sensor
Module
5V
1
2
3
X2
3
2
5
6
7
4
X1
2
BK
WH
RD
BU
YE
GY
127
BK
A39
Reductant
Fluid
Reservoir
Assembly
L
L
L
G103

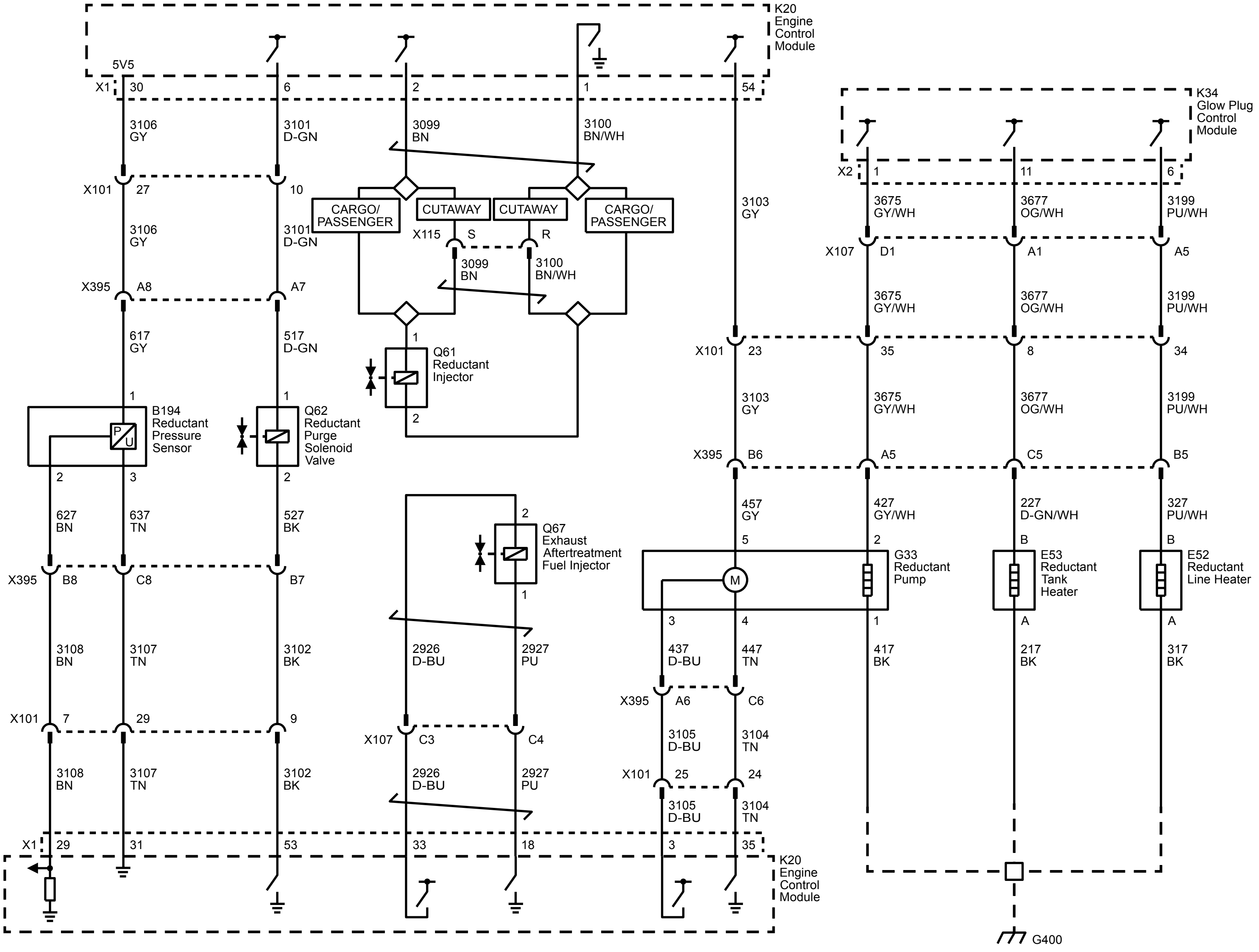
Fuel Controls - Fuel Pump, Temperature and Pressure Controls


B+
X50A
Fuse Block -
Underhood
PWR/TRN Relay 49
86
30
KR23A
Fuel
Pump
Relay
85
87
FUEL
HTR
15A
DIESEL
FUEL PUMP
20A
X1
C8
C7
X2
B1
B2
1
B48B
Fuel
Temperature
Sensor 2
2
3
B47B
Fuel Rail
Pressure
Sensor
P
U
1
2
1
B48A
Fuel
Temperature
Sensor 1
2
1578
YE
6062
BN
2917
TN
2919
OG/BK
2918
YE
7072
BN/GY
7073
BN/WH
X112
1
2
4
6
5
X110
3
4
1578
YE
6062
BN
2917
TN
2919
OG/BK
2918
YE
7072
BN/GY
7073
BN/WH
465
D-GN/WH
120
GY
2239
PK
X174
C
B
X3
11
48
14
36
20
27
46
X1
4
5V1
K20
Engine
Control
Module
120
GY
2239
PK
X316
F
D
X2
4
19
W7
Blunt Cut -
Shield
W7
Blunt Cut - Shield
X2
3
5
X3
44
120
GY
2239
PK
1
G12
Fuel
Pump
M
2
B
E11
Fuel
Heater
A
2530
PU/WH
2834
YE
451
BK/WH
451
BK/WH
2928
YE
2929
BK
5765
GY/BK
1250
BK
W7
Blunt Cut -
Shield
W7
Blunt Cut -
Shield
X110
7
8
X110
5
6
A
B215
Fuel Filter
Pressure
Switch
P
B
150
BK
150
BK
2530
PU/WH
2834
YE
451
BK/WH
451
BK/WH
2928
YE
2929
BK
450
BK
1
Q18B
Fuel
Pressure
Regulator 2
2
1
Q18A
Fuel
Pressure
Regulator 1
2
G110
G111
G102
G400

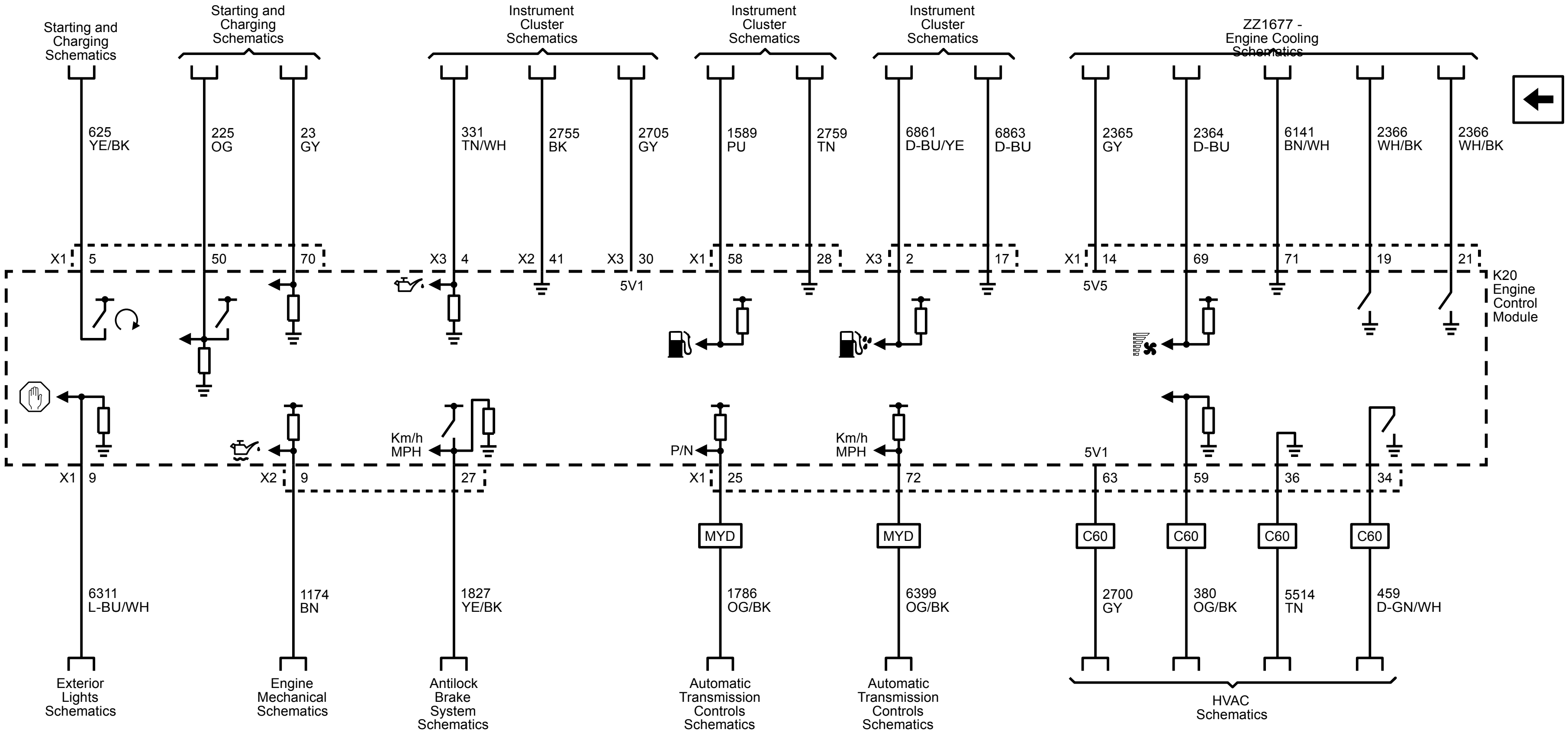
Fuel Controls - Fuel Injectors


2
Q17A
Fuel
Injector 1
1
2
Q17B
Fuel Injector
2
1
2
Q17C
Fuel Injector
3
1
2
Q17D
Fuel Injector
4
1
2
Q17E
Fuel
Injector 5
1
2
Q17F
Fuel
Injector 6
1
2
Q17G
Fuel
Injector 7
1
2
Q17H
Fuel
Injector 8
1
4801
BN
4901
BN/WH
4802
D-BU
4902
D-BU/WH
4803
D-GN
4903
D-GN/WH
4804
L-BU
4904
L-BU/WH
4805
L-GN
4905
L-GN/WH
4806
PU
4906
PU/WH
4807
TN
4907
TN/WH
4808
GY
4908
GY/WH
X2
16
13
X3
51
50
71
69
X2
15
29
X3
52
70
X2
32
30
31
14
X3
72
49
K20
Engine
Control
Module

Emissions Controls - Reductant System


K20 Engine Control Module
5V5
X1
30
6
2
1
54
3106 GY
3101 D-GN
3099 BN
3100 BN/WH
3103 GY
X101
27
10
CARGO/ PASSENGER
CUTAWAY
CUTAWAY
CARGO/ PASSENGER
X115
S
R
3099 BN
3100 BN/WH
X395
A8
A7
617 GY
517 D-GN
Q61 Reductant Injector
B194 Reductant Pressure Sensor
P
U
Q62 Reductant Purge Solenoid Valve
627 BN
637 TN
527 BK
B8
C8
B7
Q67 Exhaust Aftertreatment Fuel Injector
3108 BN
3107 TN
3102 BK
2926 D-BU
2927 PU
7
29
9
X107
C3
C4
29
31
53
33
18
K34 Glow Plug Control Module
X2
11
3675 GY/WH
3677 OG/WH
3199 PU/WH
D1
A1
A5
23
35
8
34
B6
A5
C5
B5
457 GY
427 GY/WH
227 D-GN/WH
327 PU/WH
5
B
G33 Reductant Pump
M
E53 Reductant Tank Heater
E52 Reductant Line Heater
3
4
A
437 D-BU
447 TN
417 BK
217 BK
317 BK
A6
C6
3105 D-BU
3104 TN
25
24
35
G400

Controlled/Monitored Subsystem References


Starting and Charging Schematics
Starting and Charging Schematics
Instrument Cluster Schematics
Instrument Cluster Schematics
Instrument Cluster Schematics
ZZ1677 - Engine Cooling Schematics
625 YE/BK
225 OG
23 GY
331 TN/WH
2755 BK
2705 GY
1589 PU
2759 TN
6861 D-BU/YE
6863 D-BU
2365 GY
2364 D-BU
6141 BN/WH
2366 WH/BK
2366 WH/BK
X1 5
50
70
X3 4
X2 41
X3 30
5V1
X1 58
28
X3 2
17
X1 14
5V5
69
71
19
21
K20 Engine Control Module
Km/h MPH
Km/h MPH
P/N
5V1
X1 9
X2 9
27
X1 25
72
63
59
36
34
MYD
MYD
C60
C60
C60
C60
6311 L-BU/WH
1174 BN
1827 YE/BK
1786 OG/BK
6399 OG/BK
2700 GY
380 OG/BK
5514 TN
459 D-GN/WH
Exterior Lights Schematics
Engine Mechanical Schematics
Antilock Brake System Schematics
Automatic Transmission Controls Schematics
Automatic Transmission Controls Schematics
HVAC Schematics

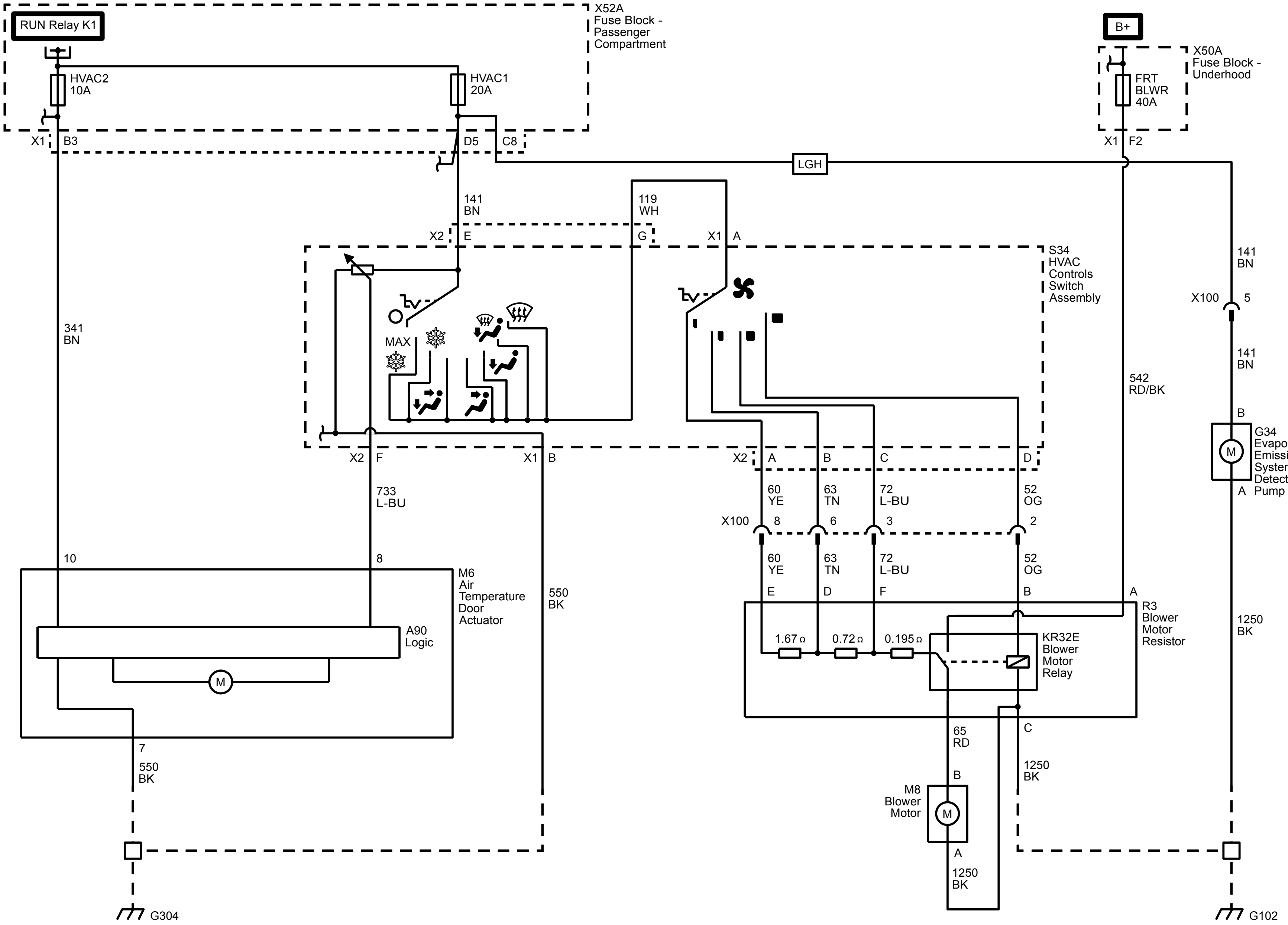
HVAC

HVAC - Manual

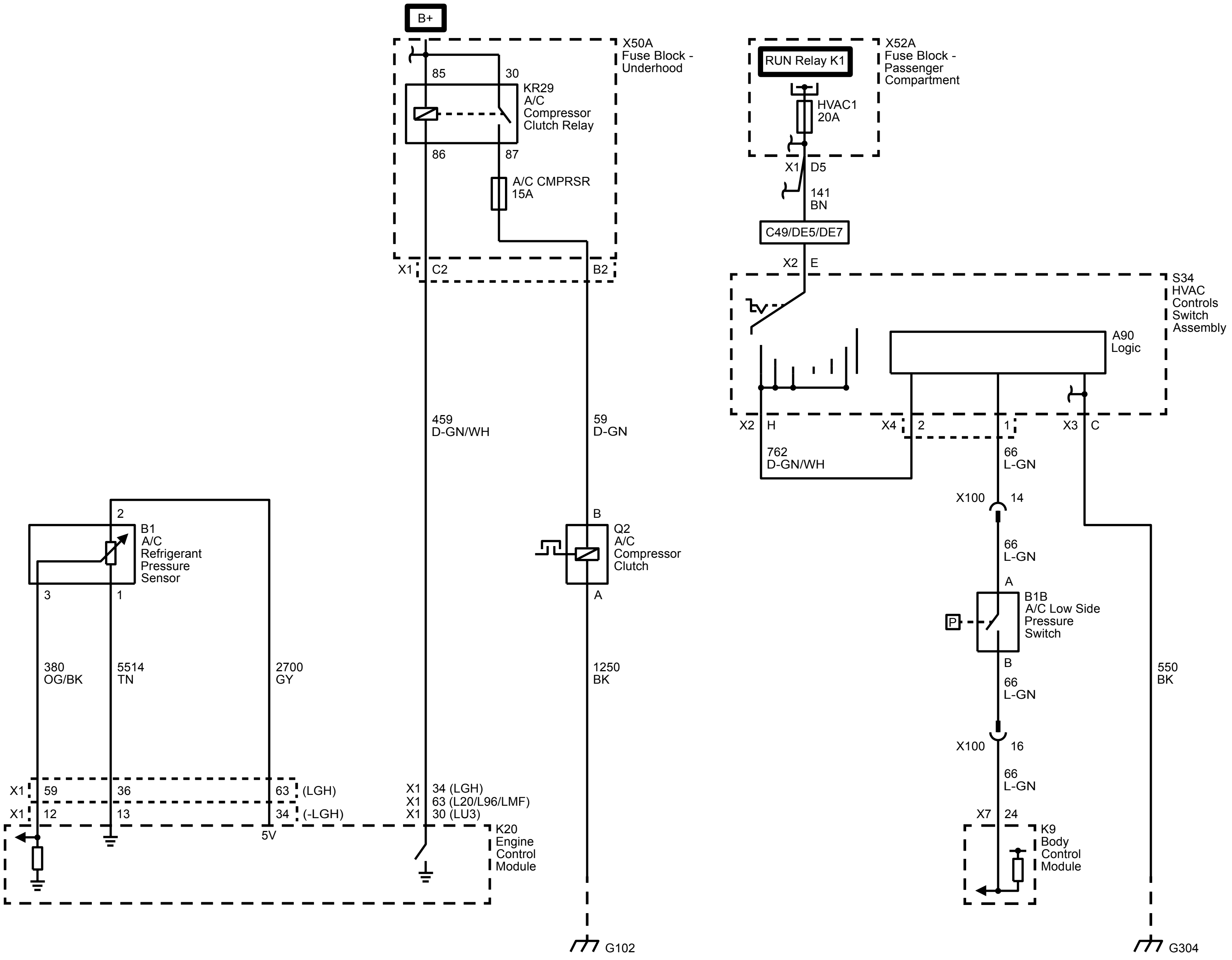
Schematic and Routing Diagrams

HVAC Schematics

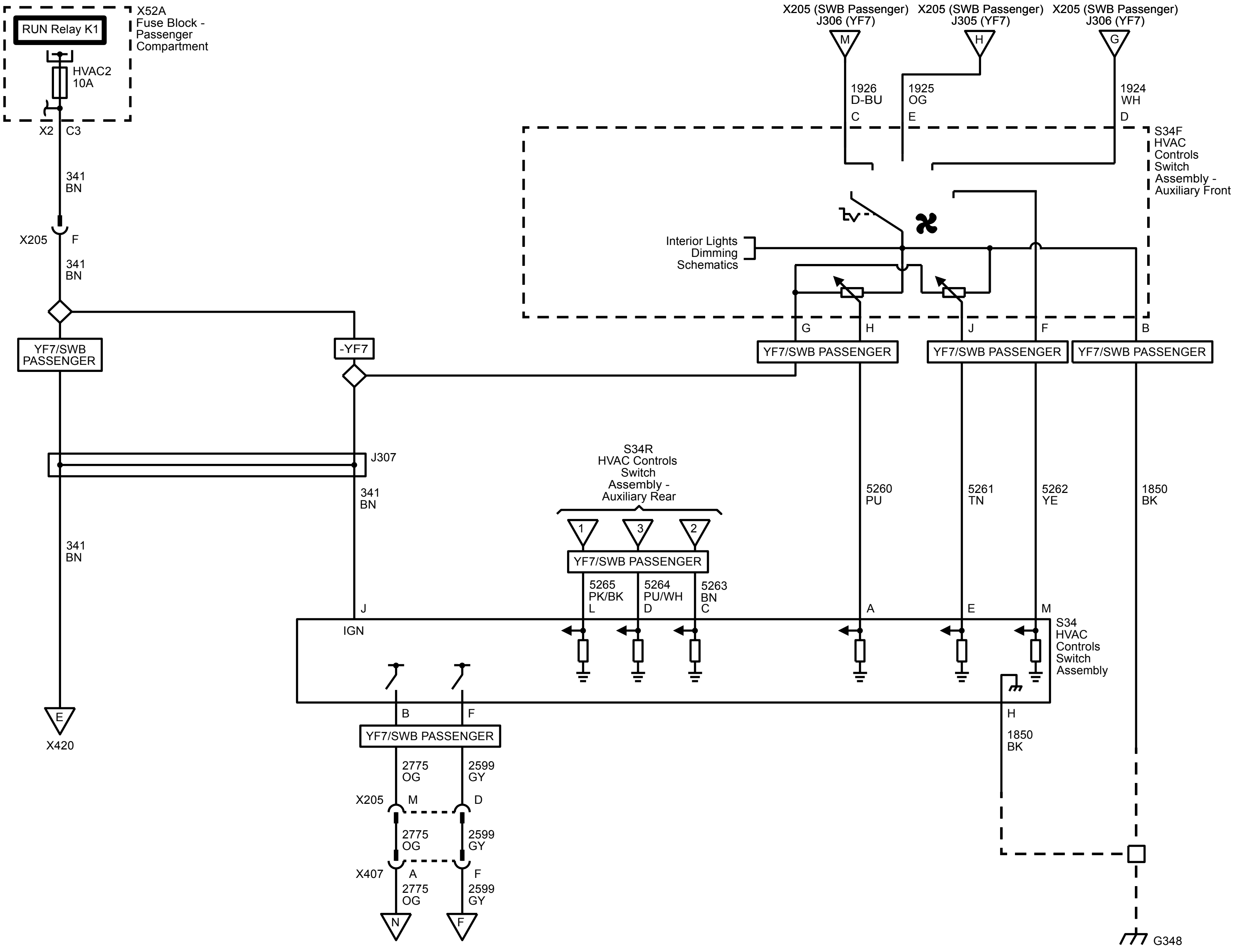
Primary Blower and Air Delivery Controls (C42) and Vacuum Pump (Diesel)


RUN Relay K1
X52A
Fuse Block -
Passenger
Compartment
HVAC2
10A
HVAC1
20A
X1
B3
D5
C8
B+
X50A
Fuse Block -
Underhood
FRT
BLWR
40A
X1
F2
LGH
141
BN
119
WH
X2
E
G
X1
A
S34
HVAC
Controls
Switch
Assembly
MAX
341
BN
141
BN
X100
5
141
BN
542
RD/BK
B
G34
Evaporative
Emission
System Leak
Detection
Pump
A
X2
F
X1
B
X2
A
B
C
D
733
L-BU
60
YE
63
TN
72
L-BU
52
OG
X100
8
6
3
2
60
YE
63
TN
72
L-BU
52
OG
E
D
F
B
A
10
8
M6
Air
Temperature
Door
Actuator
550
BK
A90
Logic
M
R3
Blower
Motor
Resistor
1.67 Ω
0.72 Ω
0.195 Ω
KR32E
Blower
Motor
Relay
1250
BK
7
550
BK
65
RD
C
1250
BK
B
M8
Blower
Motor
M
A
1250
BK
G304
G102

Compressor Controls (C60)

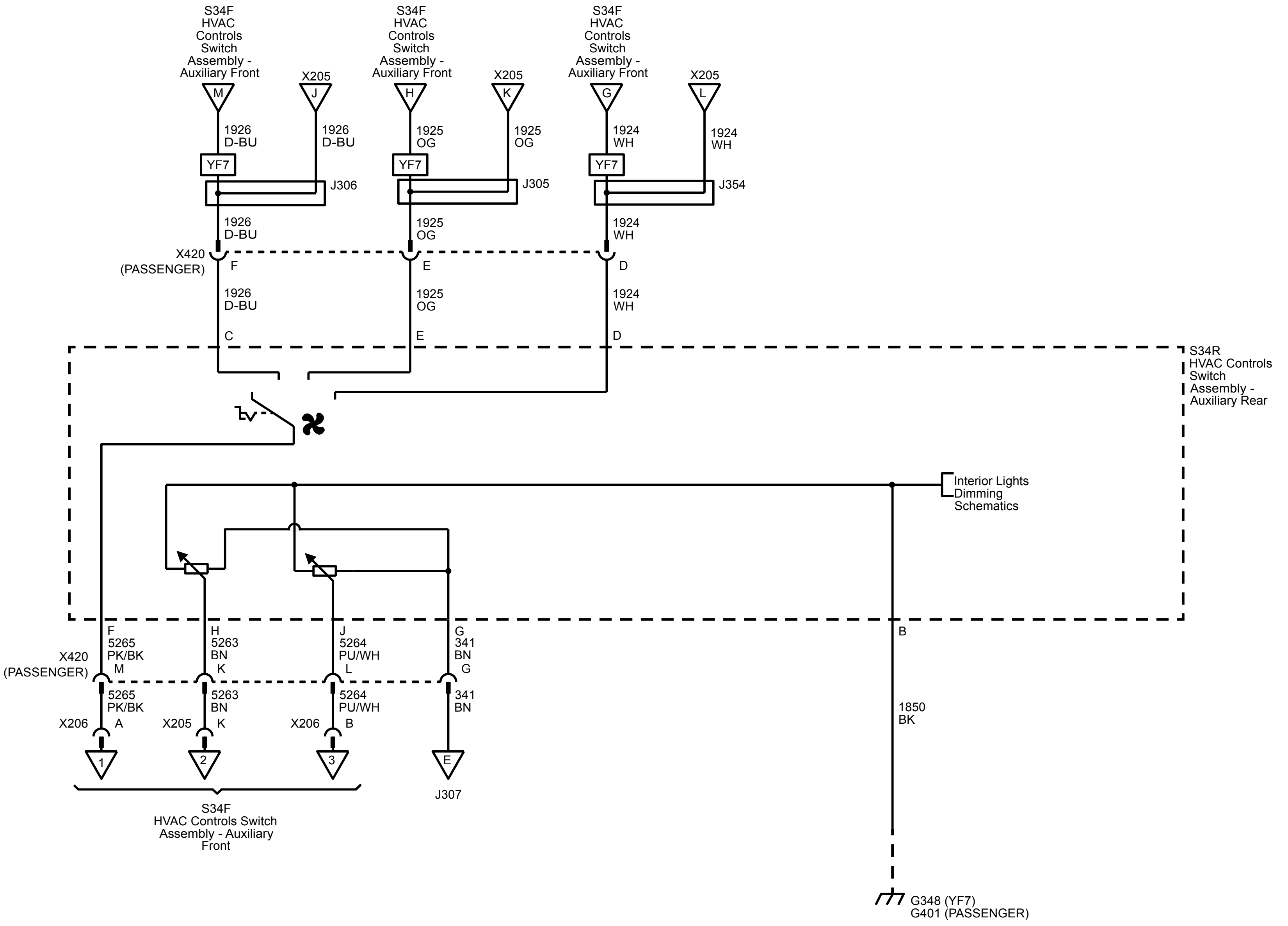

B+
X50A
Fuse Block -
Underhood
85
30
KR29
A/C
Compressor
Clutch Relay
86
87
A/C CMPRSR
15A
X1
C2
B2
459
D-GN/WH
59
D-GN
B
Q2
A/C
Compressor
Clutch
A
1250
BK
G102
RUN Relay K1
X52A
Fuse Block -
Passenger
Compartment
HVAC1
20A
X1
D5
141
BN
C49/DE5/DE7
X2
E
S34
HVAC
Controls
Switch
Assembly
A90
Logic
X2
H
X4
2
1
X3
C
762
D-GN/WH
66
L-GN
X100
14
66
L-GN
A
B1B
A/C Low Side
Pressure
Switch
P
B
66
L-GN
X100
16
66
L-GN
X7
24
K9
Body
Control
Module
550
BK
G304
2
B1
A/C
Refrigerant
Pressure
Sensor
3
1
380
OG/BK
5514
TN
2700
GY
X1
59
36
63
(LGH)
X1
12
13
34
(-LGH)
5V
X1
34 (LGH)
X1
63 (L20/L96/LMF)
X1
30 (LU3)
K20
Engine
Control
Module

Rear HVAC (C69) with Rear Auxiliary Controls - Front Controls

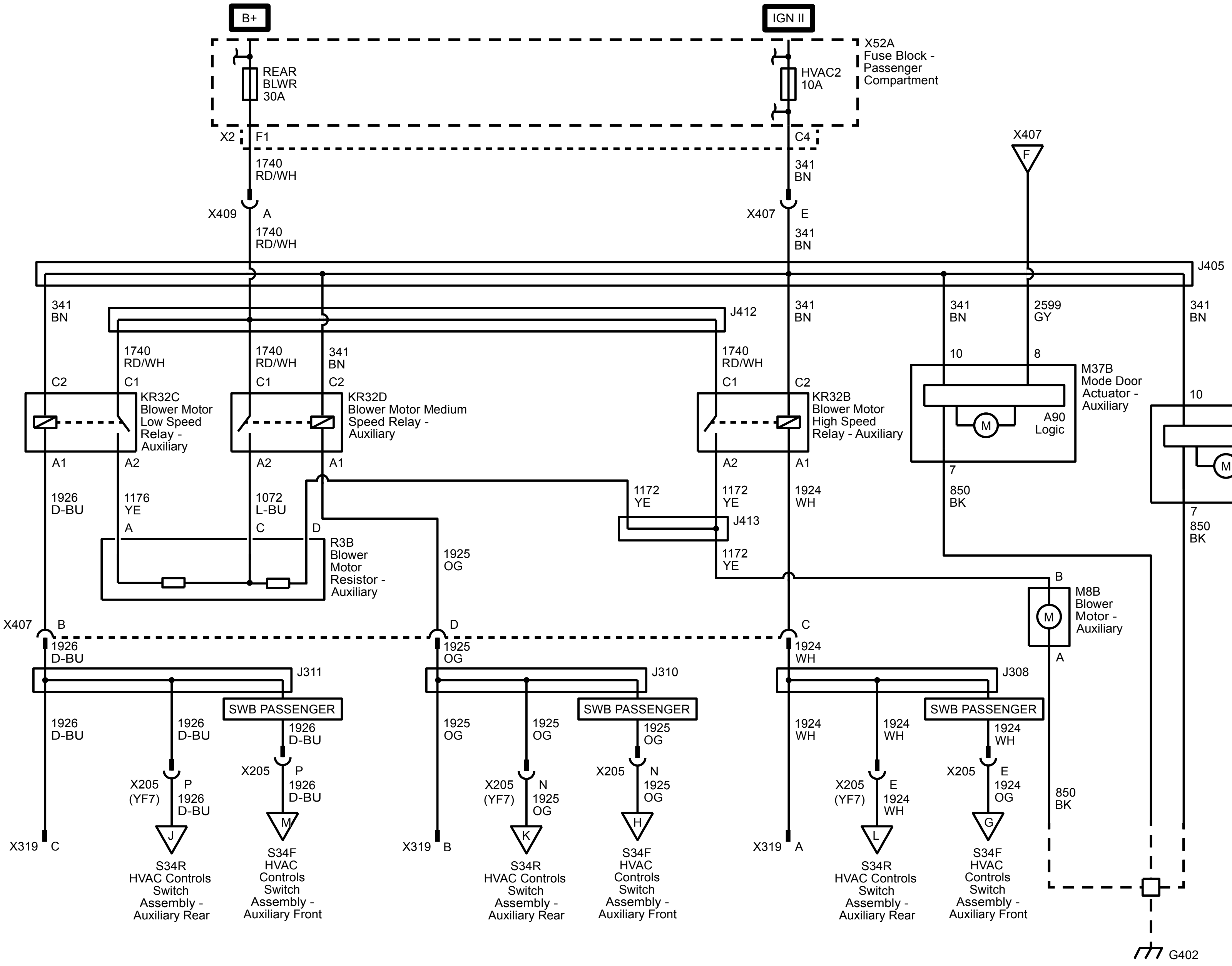


RUN Relay K1
X52A
Fuse Block - Passenger Compartment
HVAC2
10A
X2
C3
341
BN
X205
F
341
BN
YF7/SWB PASSENGER
-YF7
J307
341
BN
341
BN
E
X420
X205 (SWB Passenger) J306 (YF7)
M
X205 (SWB Passenger) J305 (YF7)
H
X205 (SWB Passenger) J306 (YF7)
G
1926
D-BU
C
1925
OG
E
1924
WH
D
S34F HVAC Controls Switch Assembly - Auxiliary Front
Interior Lights Dimming Schematics
G
H
J
F
B
YF7/SWB PASSENGER
YF7/SWB PASSENGER
YF7/SWB PASSENGER
S34R HVAC Controls Switch Assembly - Auxiliary Rear
1
3
2
YF7/SWB PASSENGER
5265
PK/BK
L
5264
PU/WH
D
5263
BN
C
5260
PU
5261
TN
5262
YE
1850
BK
J
IGN
A
E
M
S34 HVAC Controls Switch Assembly
B
F
H
YF7/SWB PASSENGER
2775
OG
2599
GY
X205
M
D
2775
OG
2599
GY
X407
A
F
2775
OG
2599
GY
N
F
1850
BK
G348

Rear HVAC (C69) with Rear Auxiliary Controls - Rear Controls


S34F HVAC Controls Switch Assembly - Auxiliary Front
M
X205
J
1926 D-BU
1926 D-BU
YF7
J306
S34F HVAC Controls Switch Assembly - Auxiliary Front
H
X205
K
1925 OG
1925 OG
YF7
J305
S34F HVAC Controls Switch Assembly - Auxiliary Front
G
X205
L
1924 WH
1924 WH
YF7
J354
1926 D-BU
1925 OG
1924 WH
X420 (PASSENGER)
F
E
D
1926 D-BU
1925 OG
1924 WH
C
E
D
S34R HVAC Controls Switch Assembly - Auxiliary Rear
Interior Lights Dimming Schematics
F 5265 PK/BK
H 5263 BN
J 5264 PU/WH
G 341 BN
B
X420 (PASSENGER)
M
K
L
G
5265 PK/BK
5263 BN
5264 PU/WH
341 BN
1850 BK
X206
A
X205
K
X206
B
1
2
3
E
J307
S34F HVAC Controls Switch Assembly - Auxiliary Front
G348 (YF7)
G401 (PASSENGER)

Rear HVAC (C69) with Rear Auxiliary Controls - Air Delivery Controls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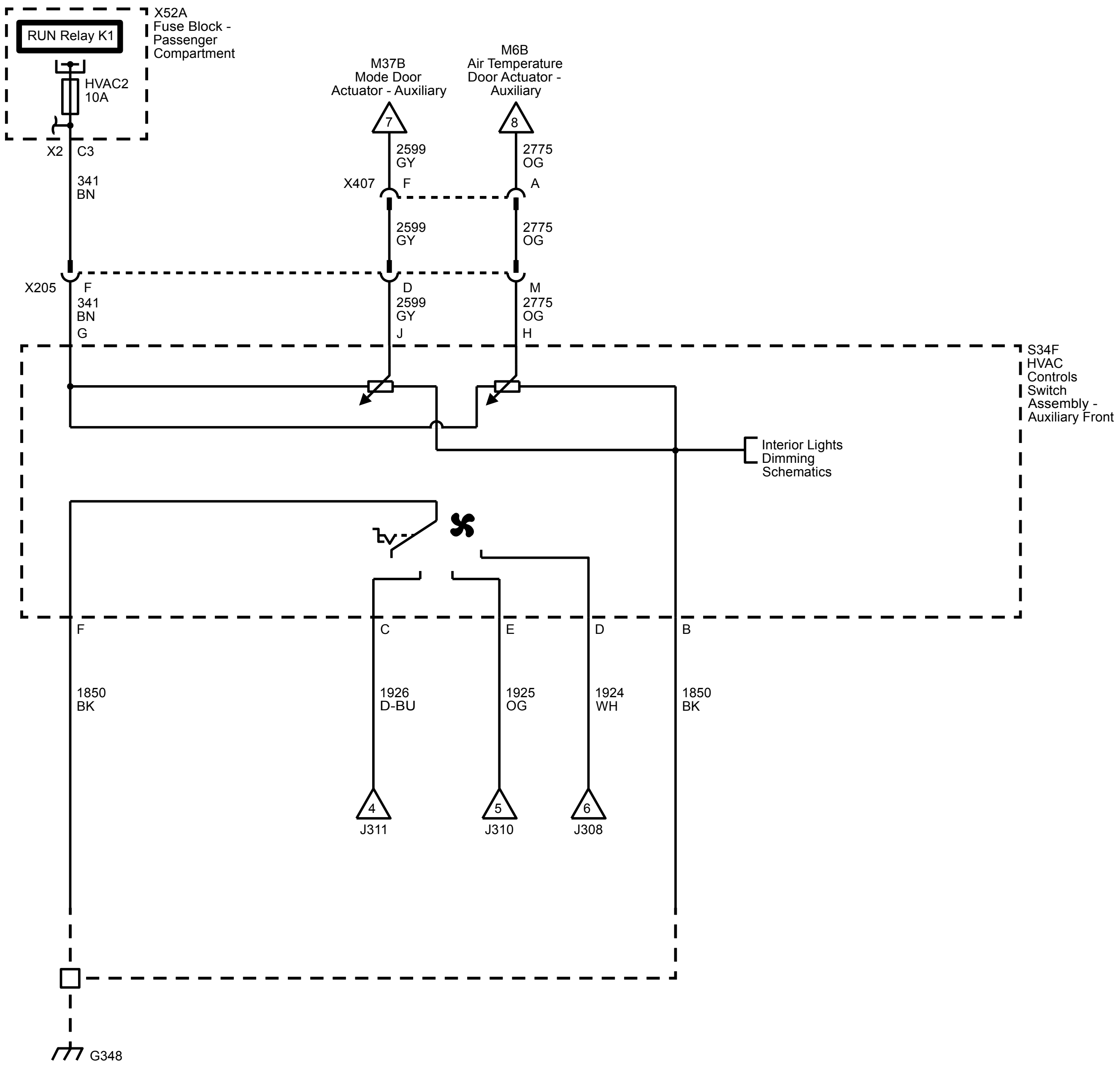
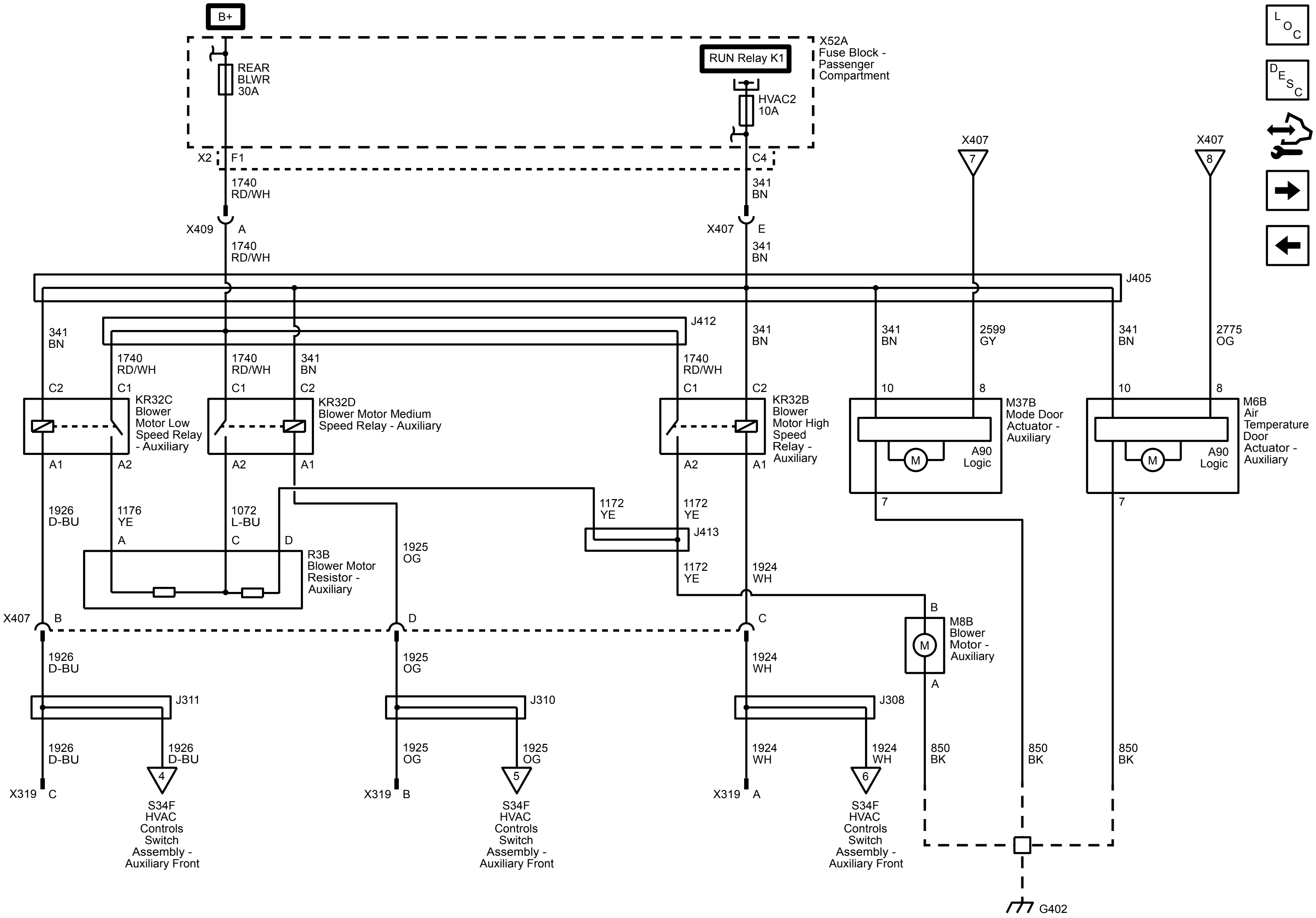
IGN II
X52A
Fuse Block - Passenger Compartment
REAR BLWR 30A
HVAC2 10A
X2
F1
C4
1740 RD/WH
341 BN
X409
A
X407
E
J405
J412
X407
F
X407
N
2599 GY
2775 OG
341 BN
C2
C1
1740 RD/WH
341 BN
KR32C
Blower Motor Low Speed Relay - Auxiliary
KR32D
Blower Motor Medium Speed Relay - Auxiliary
KR32B
Blower Motor High Speed Relay - Auxiliary
A1
A2
M37B
Mode Door Actuator - Auxiliary
M6B
Air Temperature Door Actuator - Auxiliary
10
8
7
M
A90 Logic
850 BK
1926 D-BU
1176 YE
1072 L-BU
1172 YE
1924 WH
J413
A
C
D
R3B
Blower Motor Resistor - Auxiliary
1925 OG
B
M8B
Blower Motor - Auxiliary
X407
B
D
C
J311
J310
J308
SWB PASSENGER
X205
(YF7)
P
N
E
J
M
K
H
L
G
X319
C
B
A
S34R
HVAC Controls Switch Assembly - Auxiliary Rear
S34F
HVAC Controls Switch Assembly - Auxiliary Front
G402

Rear HVAC (C69) without Rear Auxiliary Controls - Front Controls

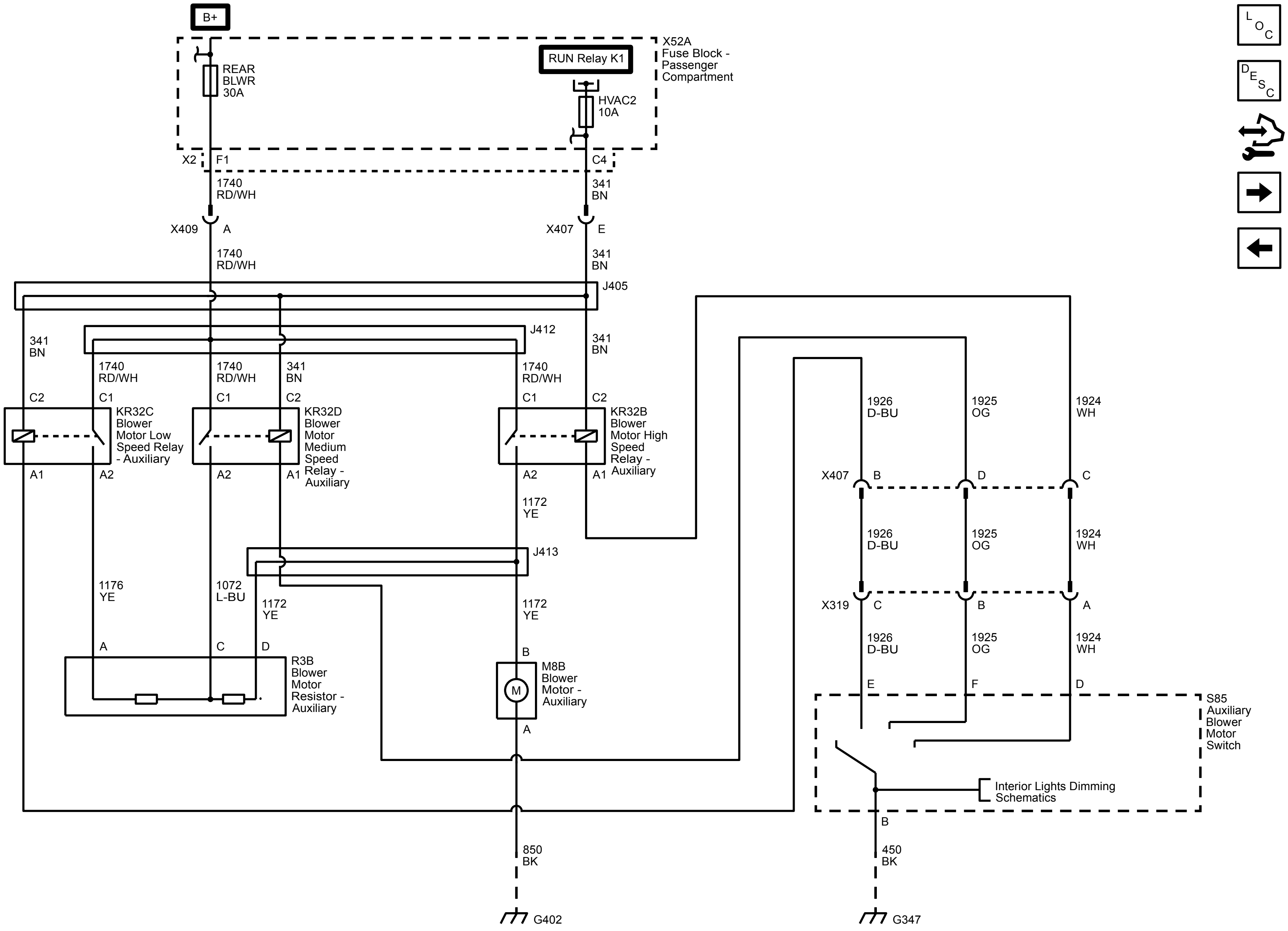

X52A
Fuse Block - Passenger Compartment
RUN Relay K1
HVAC2
10A
X2
C3
341
BN
M37B
Mode Door Actuator - Auxiliary
7
2599
GY
M6B
Air Temperature Door Actuator - Auxiliary
8
2775
OG
X407
F
A
2599
GY
2775
OG
X205
F
D
M
341
BN
G
2599
GY
J
2775
OG
H
S34F
HVAC Controls Switch Assembly - Auxiliary Front
Interior Lights Dimming Schematics
F
C
E
D
B
1850
BK
1926
D-BU
1925
OG
1924
WH
1850
BK
4
J311
5
J310
6
J308
G348

LOC
DESC

Rear HVAC (C69) without Rear Auxiliary Controls - Air Delivery Controls

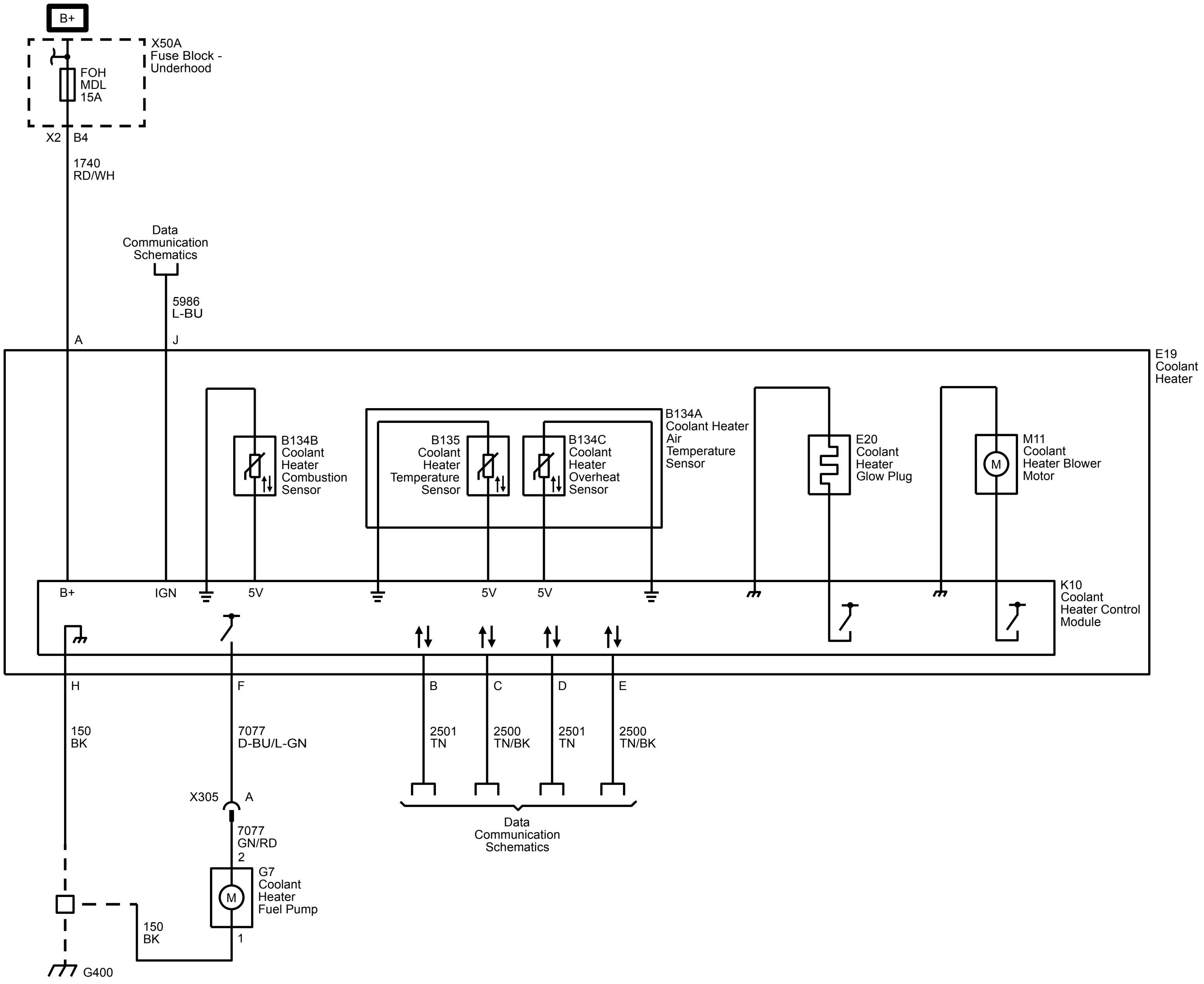

B+
REAR BLWR 30A
RUN Relay K1
HVAC2 10A
X52A Fuse Block - Passenger Compartment
X2
F1
C4
1740 RD/WH
341 BN
X409
A
X407
E
X407 7
X407 8
J405
J412
341 BN
1740 RD/WH
2599 GY
2775 OG
C2
C1
KR32C Blower Motor Low Speed Relay - Auxiliary
KR32D Blower Motor Medium Speed Relay - Auxiliary
KR32B Blower Motor High Speed Relay - Auxiliary
A1
A2
10
8
M37B Mode Door Actuator - Auxiliary
M6B Air Temperature Door Actuator - Auxiliary
A90 Logic
M
7
1926 D-BU
1176 YE
1072 L-BU
1172 YE
J413
1925 OG
1924 WH
R3B Blower Motor Resistor - Auxiliary
A
C
D
B
X407
M8B Blower Motor - Auxiliary
J311
J310
J308
850 BK
X319
4
5
6
S34F HVAC Controls Switch Assembly - Auxiliary Front
G402

Rear HVAC (C36 without C69)


B+
X52A
Fuse Block - Passenger Compartment
REAR BLWR 30A
RUN Relay K1
HVAC2 10A
X2
F1
C4
1740 RD/WH
341 BN
X409
A
X407
E
1740 RD/WH
341 BN
J405
J412
341 BN
1740 RD/WH
1740 RD/WH
341 BN
1740 RD/WH
341 BN
C2
C1
KR32C Blower Motor Low Speed Relay - Auxiliary
A1
A2
C1
C2
KR32D Blower Motor Medium Speed Relay - Auxiliary
A2
A1
C1
C2
KR32B Blower Motor High Speed Relay - Auxiliary
A2
A1
1172 YE
J413
1176 YE
1072 L-BU
1172 YE
1172 YE
A
C
D
R3B Blower Motor Resistor - Auxiliary
B
M
M8B Blower Motor - Auxiliary
A
850 BK
G402
1926 D-BU
1925 OG
1924 WH
X407
B
D
C
1926 D-BU
1925 OG
1924 WH
X319
C
B
A
1926 D-BU
1925 OG
1924 WH
E
F
D
S85 Auxiliary Blower Motor Switch
Interior Lights Dimming Schematics
B
450 BK
G347

Coolant Heater (K08)

LOC
DESC


B+
X50A
Fuse Block - Underhood
FOH
MDL
15A
X2
B4
1740
RD/WH
Data Communication Schematics
5986
L-BU
A
J
E19
Coolant Heater
B134B
Coolant Heater Combustion Sensor
B135
Coolant Heater Temperature Sensor
B134C
Coolant Heater Overheat Sensor
B134A
Coolant Heater Air Temperature Sensor
E20
Coolant Heater Glow Plug
M11
Coolant Heater Blower Motor
M
B+
IGN
5V
5V
5V
K10
Coolant Heater Control Module
H
F
B
C
D
E
150
BK
7077
D-BU/L-GN
2501
TN
2500
TN/BK
2501
TN
2500
TN/BK
X305
A
7077
GN/RD
2
G7
Coolant Heater Fuel Pump
M
1
150
BK
Data Communication Schematics
G400

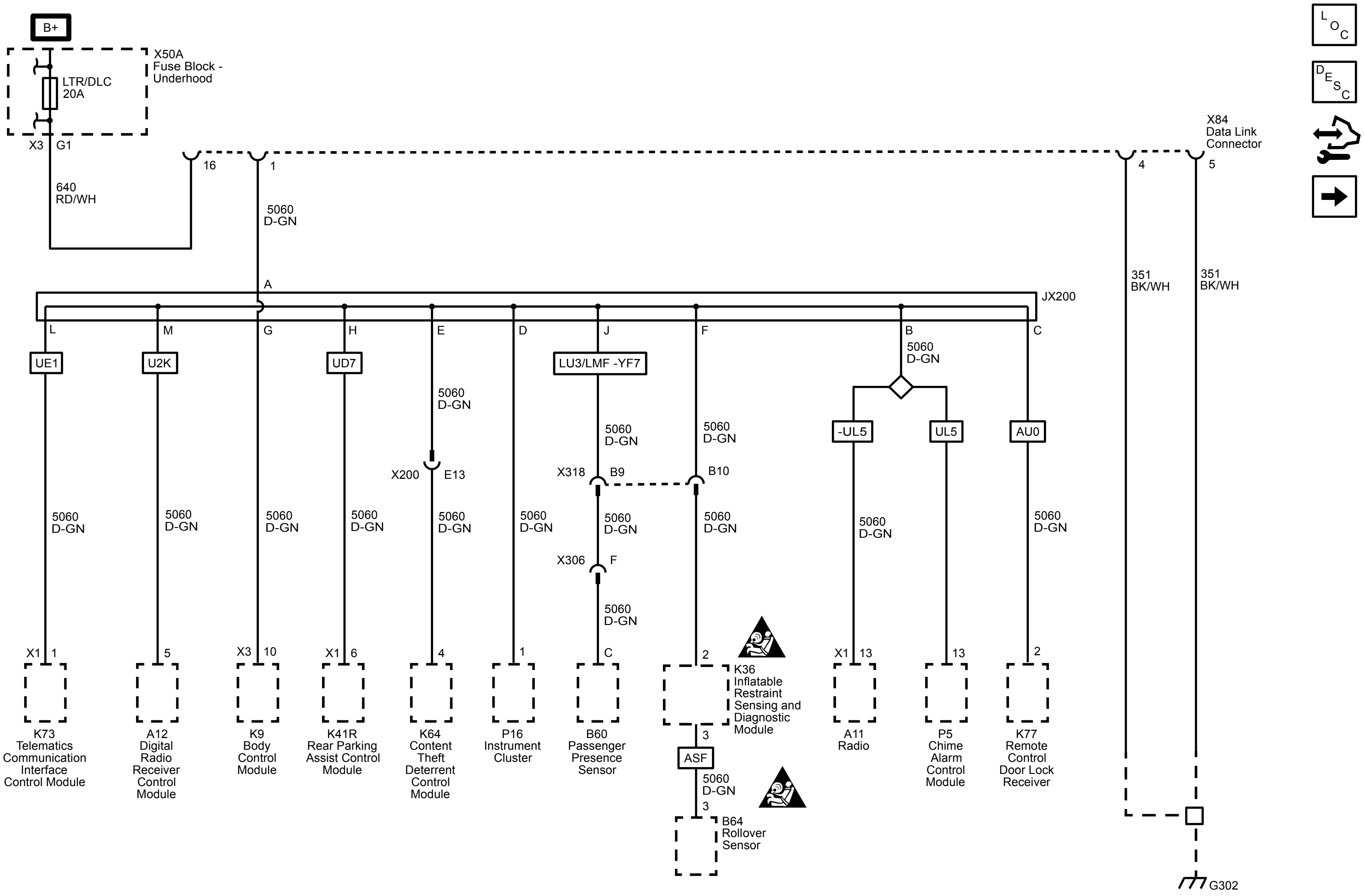
Power and Signal Distribution

Data Communications

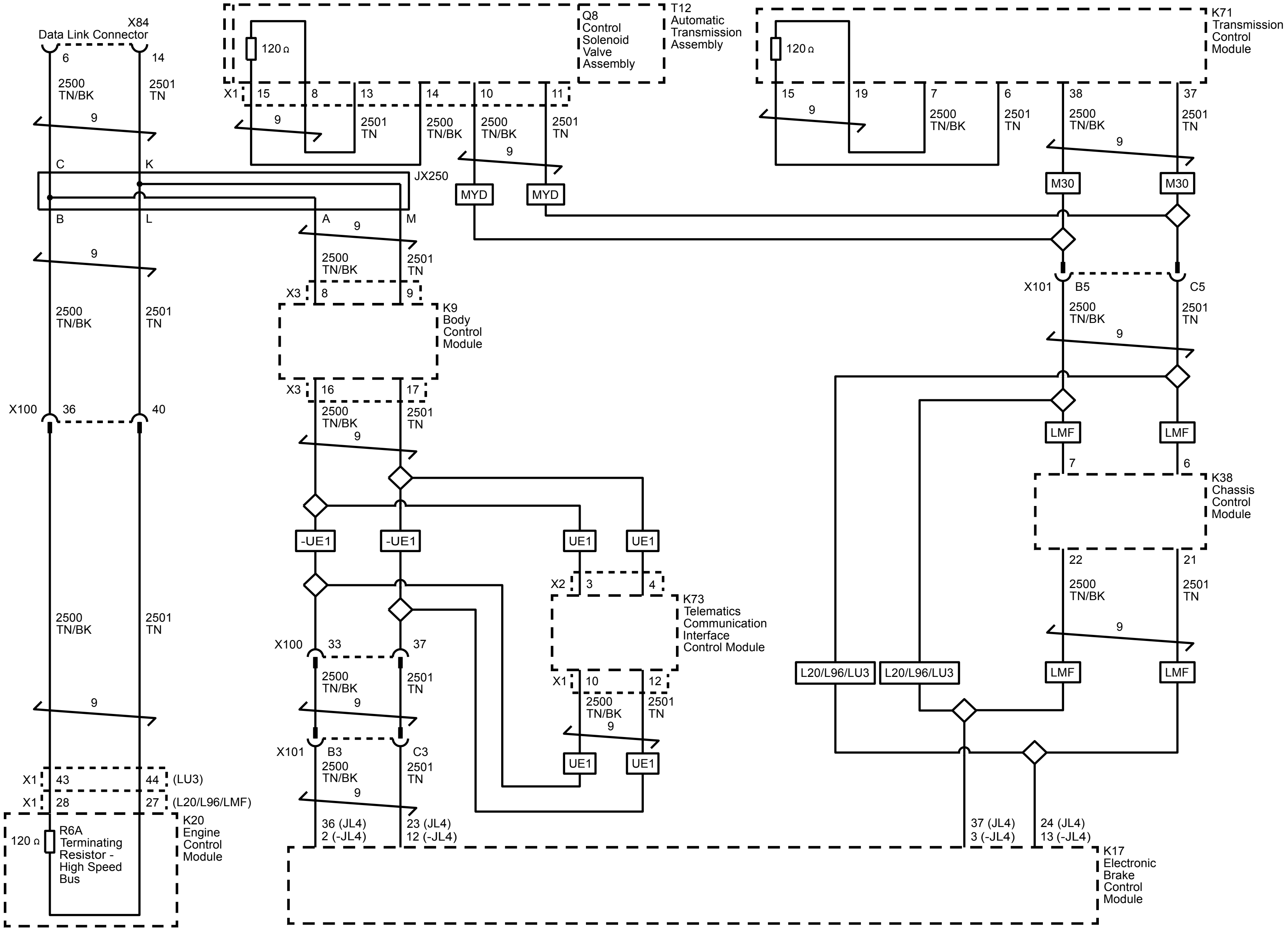
Schematic and Routing Diagrams

Data Communication Schematics

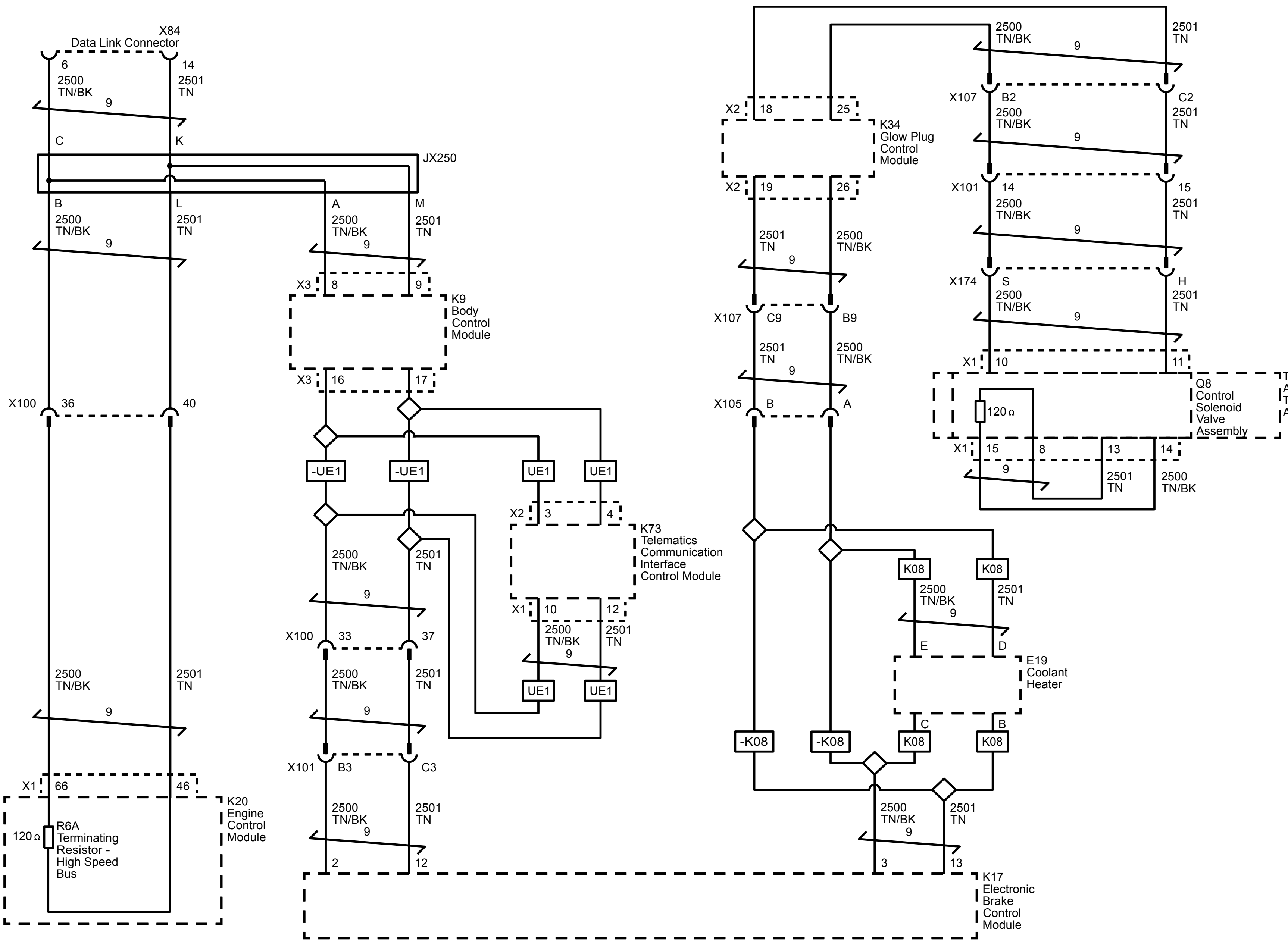
Low Speed GMLAN


B+
X50A
Fuse Block - Underhood
LTR/DLC
20A
X3
G1
640
RD/WH
16
1
5060
D-GN
X84
Data Link Connector
4
5
351
BK/WH
351
BK/WH
A
JX200
L
M
G
H
E
D
J
F
B
C
UE1
U2K
UD7
LU3/LMF -YF7
-UL5
UL5
AU0
X200
E13
X318
B9
B10
X306
F
5060
D-GN
X1 1
5
X3 10
X1 6
4
1
C
2
X1 13
13
2
K73
Telematics Communication Interface Control Module
A12
Digital Radio Receiver Control Module
K9
Body Control Module
K41R
Rear Parking Assist Control Module
K64
Content Theft Deterrent Control Module
P16
Instrument Cluster
B60
Passenger Presence Sensor
K36
Inflatable Restraint Sensing and Diagnostic Module
3
ASF
3
B64
Rollover Sensor
A11
Radio
P5
Chime Alarm Control Module
K77
Remote Control Door Lock Receiver
G302
L O C
D E S C

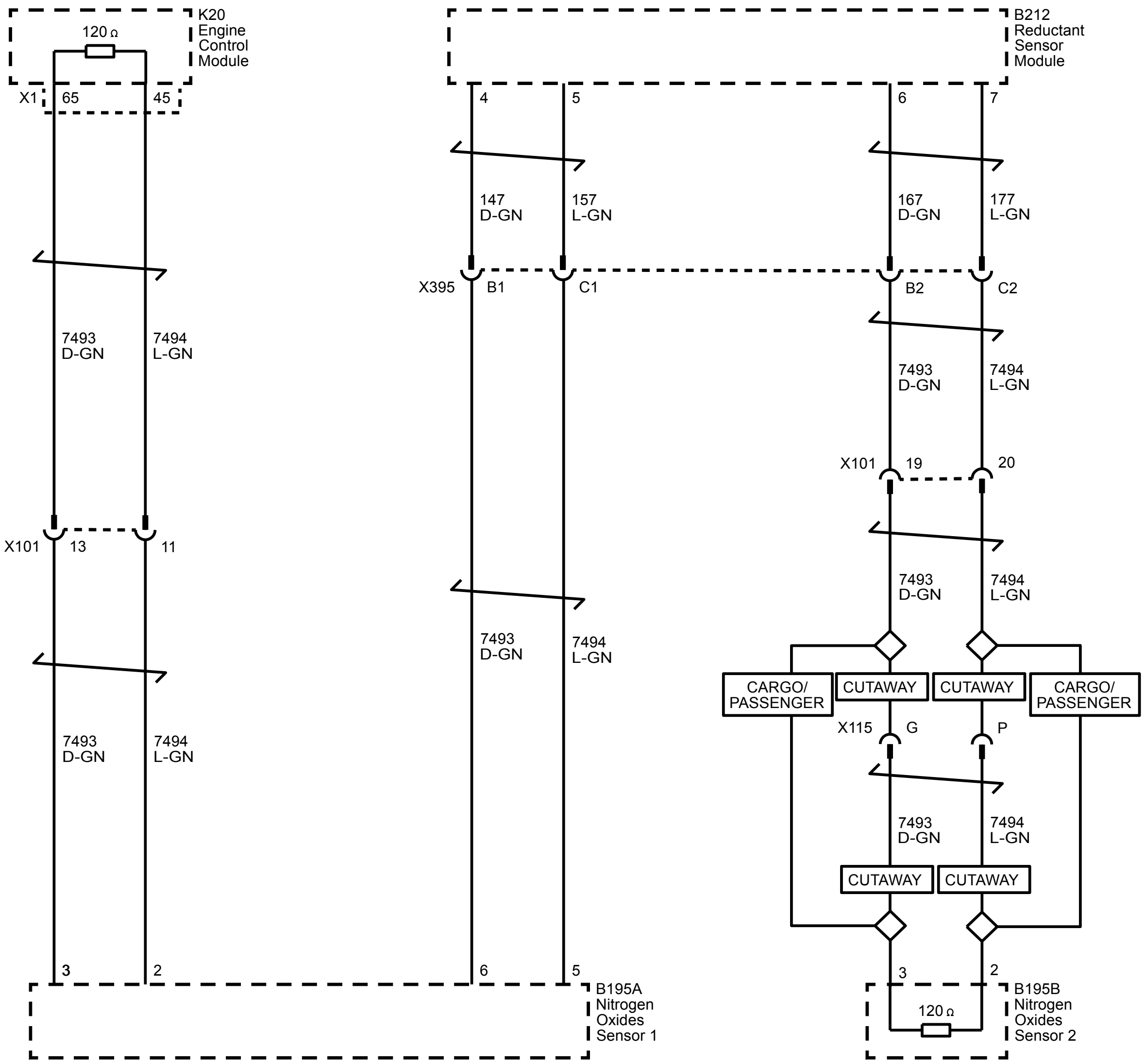
High Speed GMLAN (Gas)


X84
Data Link Connector
6
14
2500
TN/BK
2501
TN
9
C
K
JX250
B
L
A
M
2500
TN/BK
2501
TN
X3
8
9
K9
Body
Control
Module
X3
16
17
X100
36
40
-UE1
-UE1
UE1
UE1
X2
3
4
K73
Telematics
Communication
Interface
Control Module
X1
10
12
X100
33
37
X101
B3
C3
36 (JL4)
2 (-JL4)
23 (JL4)
12 (-JL4)
X1
43
44
(LU3)
X1
28
27
(L20/L96/LMF)
120 Ω
R6A
Terminating
Resistor -
High Speed
Bus
K20
Engine
Control
Module
Q8
Control
Solenoid
Valve
Assembly
T12
Automatic
Transmission
Assembly
X1
15
8
13
14
10
11
MYD
MYD
K71
Transmission
Control
Module
15
19
7
6
38
37
M30
M30
X101
B5
C5
LMF
LMF
7
6
K38
Chassis
Control
Module
22
21
L20/L96/LU3
L20/L96/LU3
LMF
LMF
37 (JL4)
3 (-JL4)
24 (JL4)
13 (-JL4)
K17
Electronic
Brake
Control
Module

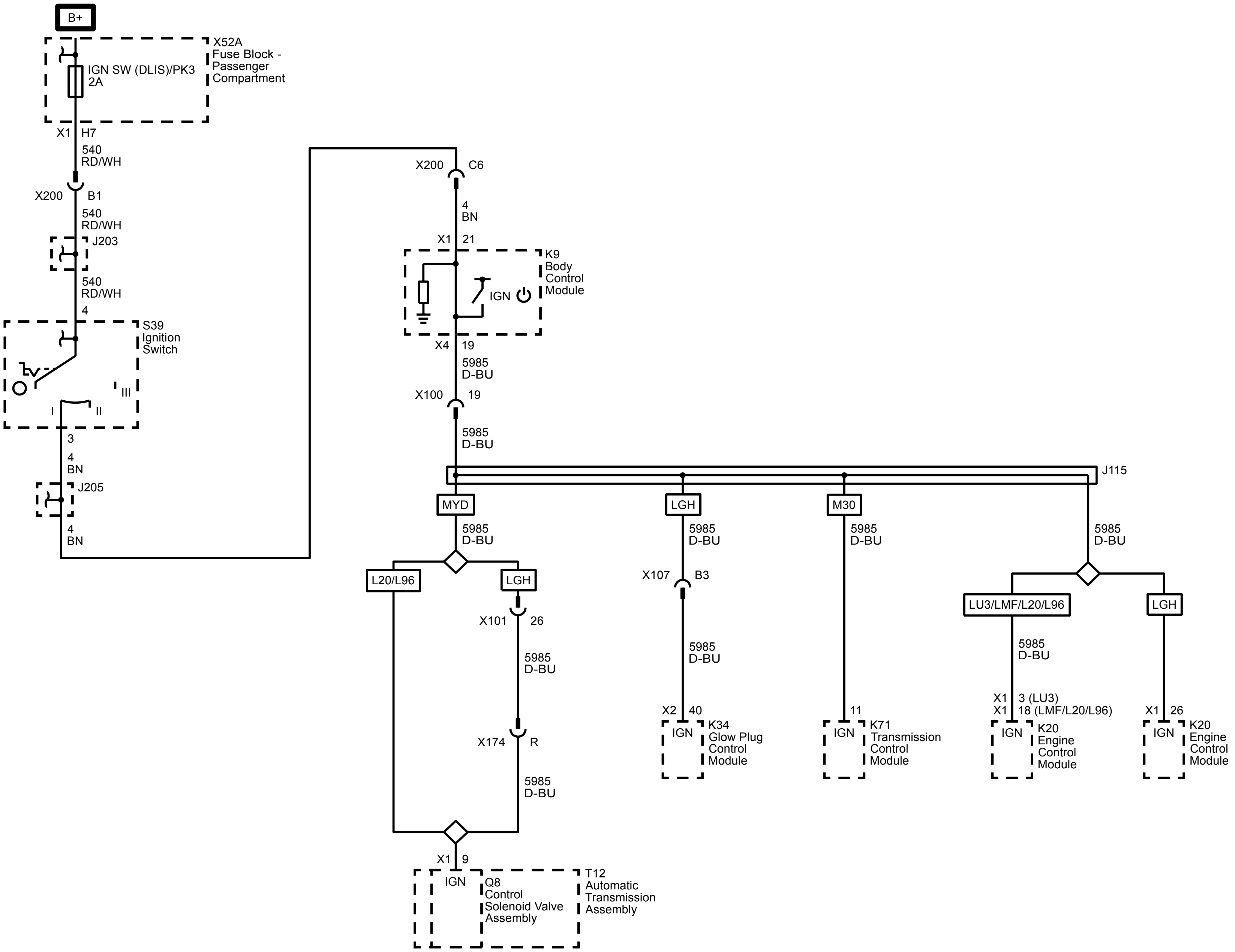
High Speed GMLAN (Diesel)


X84
Data Link Connector
6
14
2500
TN/BK
2501
TN
9
C
K
JX250
B
L
A
M
X3
8
9
K9
Body
Control
Module
16
17
X100
36
40
-UE1
UE1
X2
3
4
K73
Telematics
Communication
Interface
Control Module
X1
10
12
33
37
X101
B3
C3
2
12
K20
Engine
Control
Module
66
46
120 Ω
R6A
Terminating
Resistor -
High Speed
Bus
K17
Electronic
Brake
Control
Module
3
13
X2
18
25
K34
Glow Plug
Control
Module
19
26
X107
C9
B9
X105
B
A
-K08
K08
E
D
E19
Coolant
Heater
C
B
B2
C2
X101
14
15
X174
S
H
X1
10
11
Q8
Control
Solenoid
Valve
Assembly
T12
Automatic
Transmission
Assembly
15
8
13
14

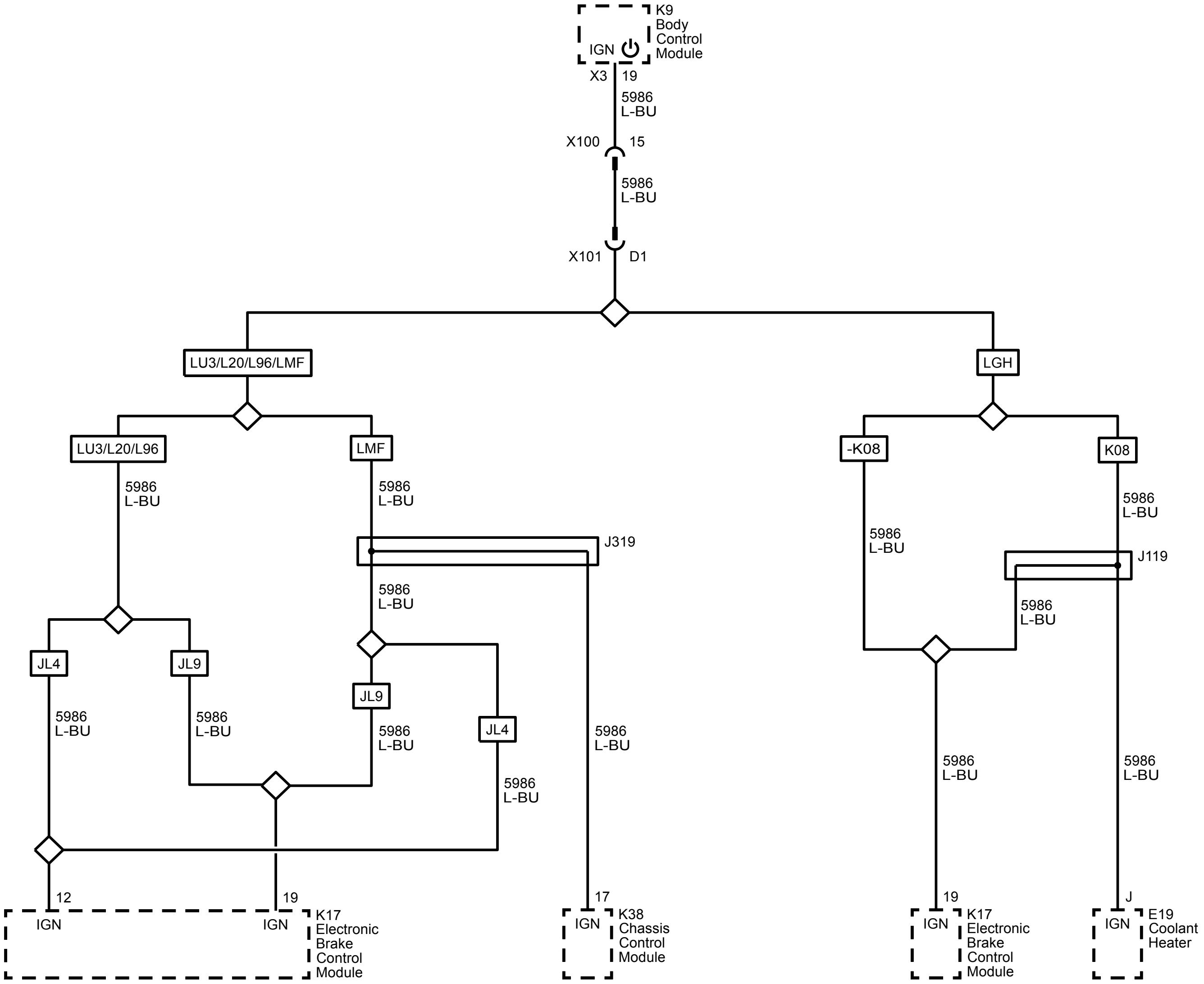
Powertrain Expansion Bus (LGH)


120 Ω
K20
Engine
Control
Module
X1
65
45
7493
D-GN
7494
L-GN
X101
13
11
7493
D-GN
7494
L-GN
B212
Reductant
Sensor
Module
4
5
6
7
147
D-GN
157
L-GN
167
D-GN
177
L-GN
X395
B1
C1
B2
C2
7493
D-GN
7494
L-GN
X101
19
20
7493
D-GN
7494
L-GN
7493
D-GN
7494
L-GN
CARGO/
PASSENGER
CUTAWAY
CUTAWAY
CARGO/
PASSENGER
X115
G
P
7493
D-GN
7494
L-GN
CUTAWAY
CUTAWAY
3
2
6
5
B195A
Nitrogen
Oxides
Sensor 1
3
2
120 Ω
B195B
Nitrogen
Oxides
Sensor 2

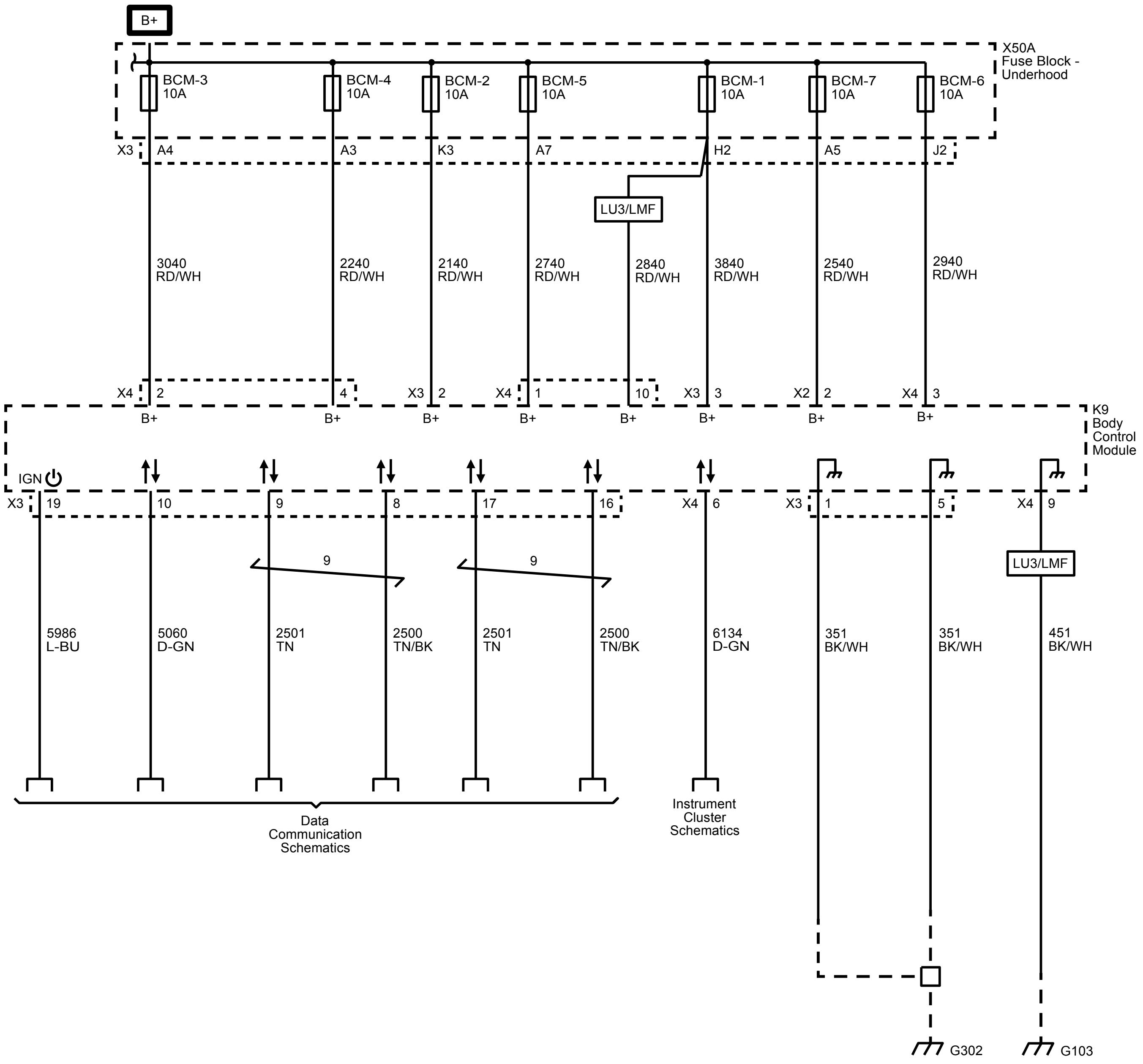
Accessory Wakeup


B+
X52A
Fuse Block - Passenger Compartment
IGN SW (DLIS)/PK3
2A
X1 H7
540
RD/WH
X200 B1
540
RD/WH
J203
540
RD/WH
4
S39
Ignition Switch
I
II
III
3
4
BN
J205
4
BN
X200 C6
4
BN
X1 21
K9
Body Control Module
IGN
X4 19
5985
D-BU
X100 19
5985
D-BU
J115
MYD
LGH
M30
5985
D-BU
L20/L96
LGH
X101 26
5985
D-BU
X174 R
5985
D-BU
X1 9
IGN
Q8
Control Solenoid Valve Assembly
T12
Automatic Transmission Assembly
5985
D-BU
X107 B3
5985
D-BU
X2 40
IGN
K34
Glow Plug Control Module
5985
D-BU
11
IGN
K71
Transmission Control Module
5985
D-BU
LU3/LMF/L20/L96
LGH
5985
D-BU
X1 3 (LU3)
X1 18 (LMF/L20/L96)
IGN
K20
Engine Control Module
X1 26
IGN
K20
Engine Control Module

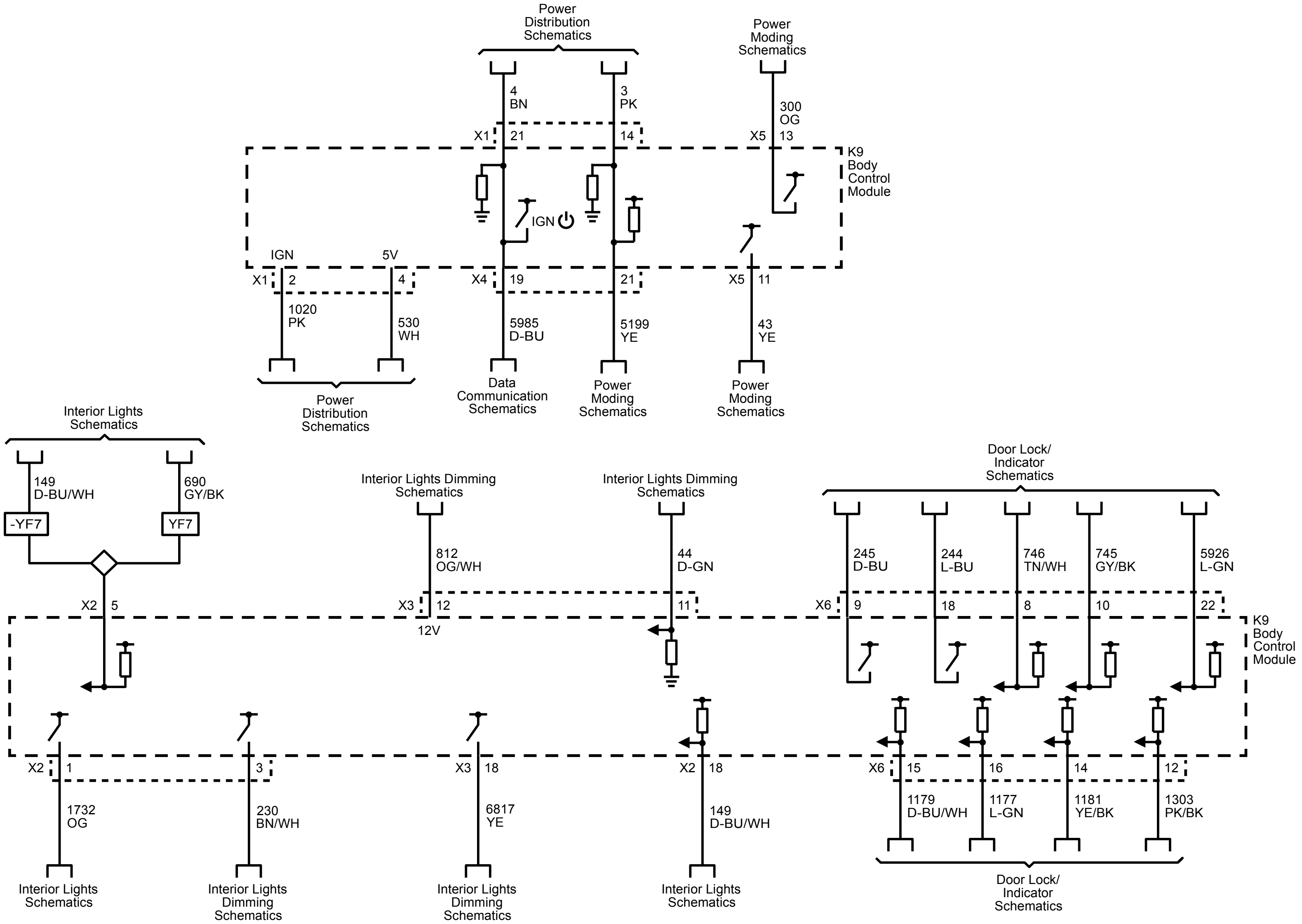
Communications Enable


K9
Body
Control
Module
IGN
X3
19
5986
L-BU
X100
15
5986
L-BU
X101
D1
LU3/L20/L96/LMF
LGH
LU3/L20/L96
LMF
-K08
K08
5986
L-BU
5986
L-BU
J319
5986
L-BU
5986
L-BU
J119
5986
L-BU
5986
L-BU
JL4
JL9
JL9
JL4
5986
L-BU
5986
L-BU
5986
L-BU
5986
L-BU
5986
L-BU
5986
L-BU
5986
L-BU
12
19
IGN
IGN
K17
Electronic
Brake
Control
Module
17
IGN
K38
Chassis
Control
Module
19
IGN
K17
Electronic
Brake
Control
Module
J
IGN
E19
Coolant
Heater

BCM Power, Ground and Serial Data

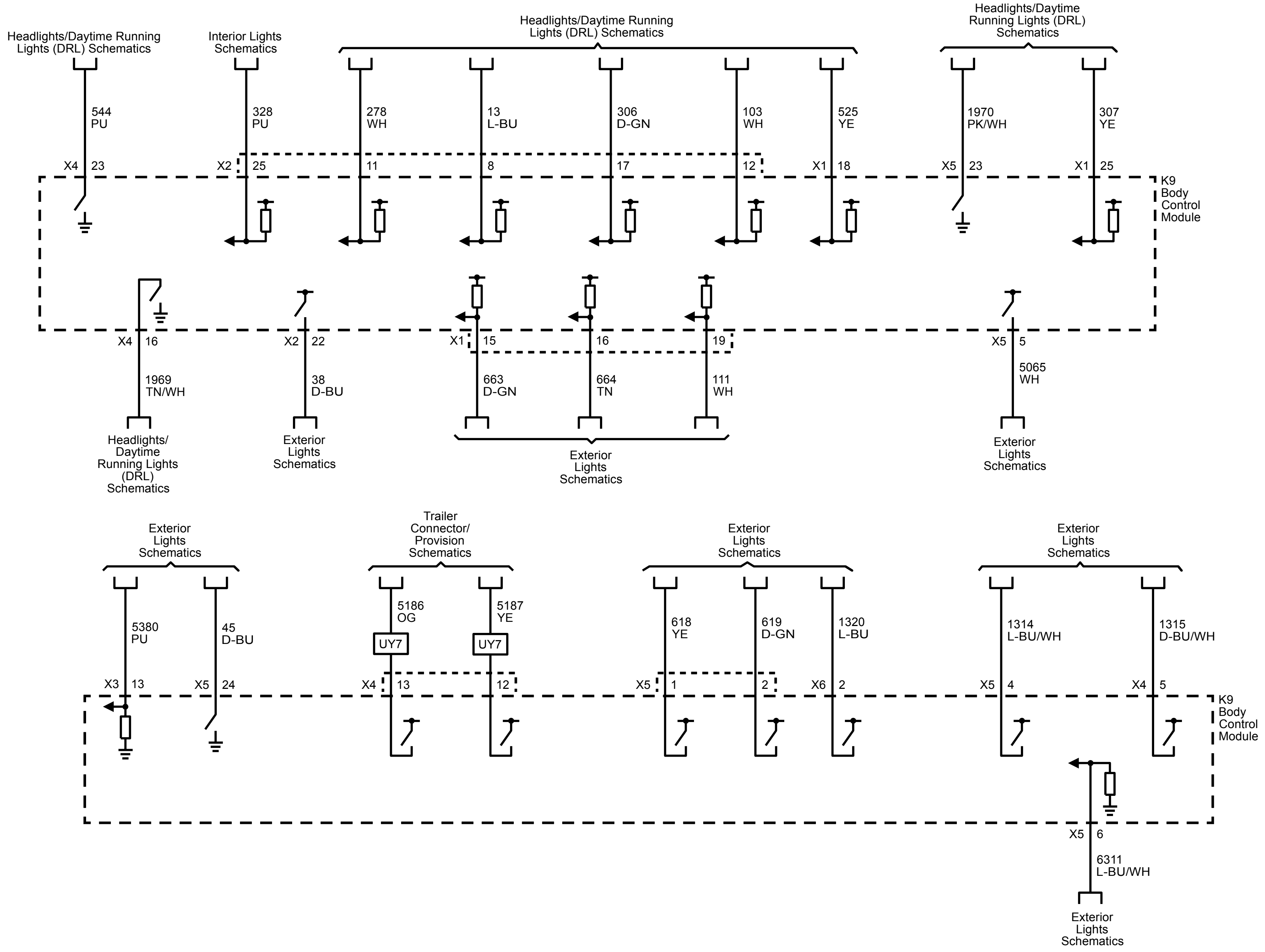

B+
X50A
Fuse Block - Underhood
BCM-3
10A
BCM-4
10A
BCM-2
10A
BCM-5
10A
BCM-1
10A
BCM-7
10A
BCM-6
10A
X3
A4
A3
K3
A7
H2
A5
J2
LU3/LMF
3040
RD/WH
2240
RD/WH
2140
RD/WH
2740
RD/WH
2840
RD/WH
3840
RD/WH
2540
RD/WH
2940
RD/WH
X4
2
4
X3
2
X4
1
10
X3
3
X2
2
X4
3
B+
B+
B+
B+
B+
B+
B+
B+
K9
Body Control Module
IGN
X3
19
10
9
8
17
16
X4
6
X3
1
5
X4
9
9
9
LU3/LMF
5986
L-BU
5060
D-GN
2501
TN
2500
TN/BK
2501
TN
2500
TN/BK
6134
D-GN
351
BK/WH
351
BK/WH
451
BK/WH
Data Communication Schematics
Instrument Cluster Schematics
G302
G103

BCM Inputs and Outputs (1 of 4)



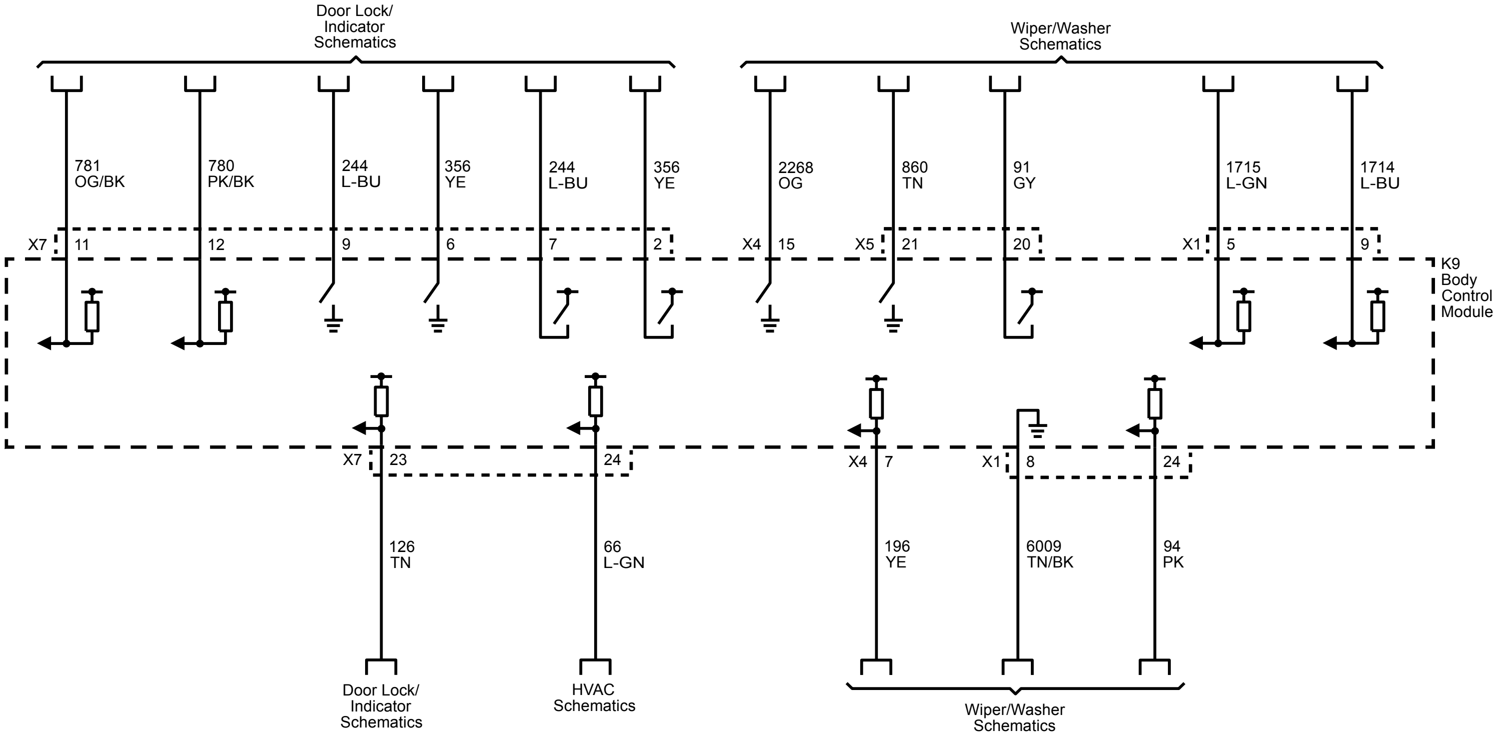
Power Distribution Schematics
4 BN
3 PK
Power Moding Schematics
300 OG
X1 21
14
X5 13
K9 Body Control Module
IGN
IGN
5V
X1 2
4
X4 19
21
X5 11
1020 PK
530 WH
5985 D-BU
5199 YE
43 YE
Power Distribution Schematics
Data Communication Schematics
Power Moding Schematics
Power Moding Schematics
Interior Lights Schematics
149 D-BU/WH
690 GY/BK
-YF7
YF7
Interior Lights Dimming Schematics
812 OG/WH
Interior Lights Dimming Schematics
44 D-GN
Door Lock/ Indicator Schematics
245 D-BU
244 L-BU
746 TN/WH
745 GY/BK
5926 L-GN
X2 5
X3 12
12V
11
X6 9
18
8
10
22
K9 Body Control Module
X2 1
3
X3 18
X2 18
X6 15
16
14
12
1732 OG
230 BN/WH
6817 YE
149 D-BU/WH
1179 D-BU/WH
1177 L-GN
1181 YE/BK
1303 PK/BK
Interior Lights Schematics
Interior Lights Dimming Schematics
Interior Lights Dimming Schematics
Interior Lights Schematics
Door Lock/ Indicator Schematics

BCM Inputs and Outputs (2 of 4)

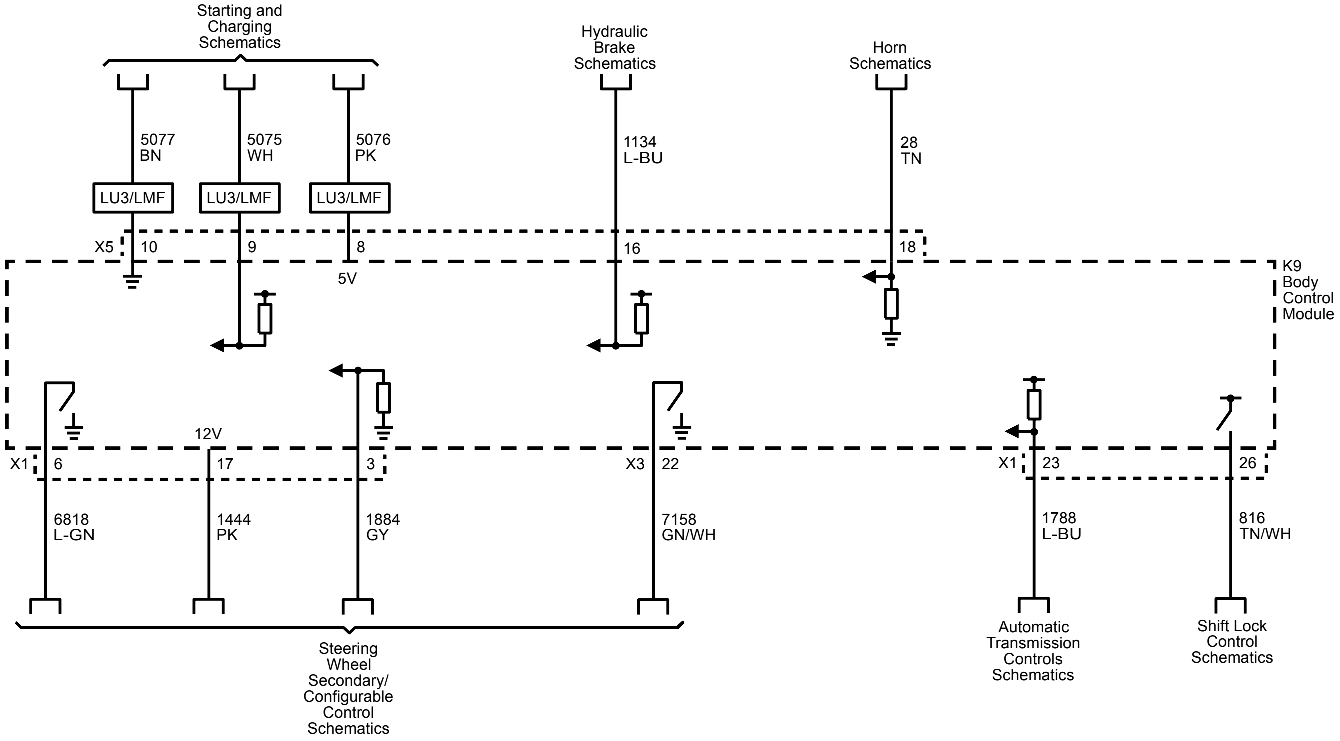

Headlights/Daytime Running Lights (DRL) Schematics
Interior Lights Schematics
Headlights/Daytime Running Lights (DRL) Schematics
Headlights/Daytime Running Lights (DRL) Schematics
544
PU
328
PU
278
WH
13
L-BU
306
D-GN
103
WH
525
YE
1970
PK/WH
307
YE
X4
23
X2
25
11
8
17
12
X1
18
X5
23
X1
25
K9
Body
Control
Module
X4
16
X2
22
X1
15
16
19
X5
5
1969
TN/WH
38
D-BU
663
D-GN
664
TN
111
WH
5065
WH
Headlights/ Daytime Running Lights (DRL) Schematics
Exterior Lights Schematics
Exterior Lights Schematics
Exterior Lights Schematics
Exterior Lights Schematics
Trailer Connector/ Provision Schematics
Exterior Lights Schematics
Exterior Lights Schematics
5380
PU
45
D-BU
5186
OG
5187
YE
UY7
UY7
618
YE
619
D-GN
1320
L-BU
1314
L-BU/WH
1315
D-BU/WH
X3
13
X5
24
X4
13
12
X5
1
2
X6
2
X5
4
X4
5
K9
Body
Control
Module
X5
6
6311
L-BU/WH
Exterior Lights Schematics

BCM Inputs and Outputs (3 of 4)

LOC
DESC


Door Lock/ Indicator Schematics
Wiper/Washer Schematics
781 OG/BK
780 PK/BK
244 L-BU
356 YE
244 L-BU
356 YE
2268 OG
860 TN
91 GY
1715 L-GN
1714 L-BU
X7 11
12
9
6
7
2
X4 15
X5 21
20
X1 5
9
K9 Body Control Module
X7 23
24
X4 7
X1 8
24
126 TN
66 L-GN
196 YE
6009 TN/BK
94 PK
Door Lock/ Indicator Schematics
HVAC Schematics
Wiper/Washer Schematics

BCM Inputs and Outputs (4 of 4)



Starting and Charging Schematics
Hydraulic Brake Schematics
Horn Schematics
5077 BN
5075 WH
5076 PK
1134 L-BU
28 TN
LU3/LMF
LU3/LMF
LU3/LMF
X5
10
9
8
16
18
5V
K9 Body Control Module
12V
X1
6
17
3
X3
22
X1
23
26
6818 L-GN
1444 PK
1884 GY
7158 GN/WH
1788 L-BU
816 TN/WH
Steering Wheel Secondary/ Configurable Control Schematics
Automatic Transmission Controls Schematics
Shift Lock Control Schematics

Description and Operation

Body Control System Description and Operation

The body control system consists of the body control module (BCM), communications, and various input and outputs. Some inputs, outputs and messages require other modules to interact with the BCM. The BCM also has discrete input and output terminals to control the vehicle's body functions. The BCM is wired to the GMLAN High speed serial data bus and the GMLAN Low speed serial data bus and acts as a gateway between them. If the BCM does not communicate the vehicle will not start due to the inability of the Engine/Powertrain Control Module (ECM/PCM) and Vehicle Theft Deterrent (VTD) Control Module to communicate without the BCM providing the gateway function.

Power Mode Master

This vehicles BCM functions as the power mode master (PMM). The ignition switch is a low current switch with multiple discrete ignition switch signals to the PMM for determination the power mode that will be sent over the serial data circuits to the other modules that need this information, and so the PMM will activate relays and other direct outputs of the PMM as needed. Refer to CELL Link Error - Link target cell (cell ID 148335) is invalid for this publication. for a complete description of power mode functions.

Serial Data Gateway

The BCM in this vehicle functions as a gateway or translator. The purpose of the gateway is to translate serial data messages between the GMLAN high speed bus and the GMLAN low speed bus for communication between the various modules. The gateway will interact with each network according to that network's transmission protocol.

One example of this necessary communication is the communication between the Engine/Powertrain Control Module (ECM/PCM) which is high speed serial data and Vehicle Theft Deterrent (VTD) Control Module which is low speed serial data. If these modules can not exchange information, the vehicle will not start.

Communication between the BCM and a scan tool can be on the high speed GMLAN network or low speed GMLAN network. If one network is lost, the BCM can still communicate with the scan tool. A lost communication DTC typically is set in modules other than the module with a communication failure.

Body Control Module

The various body control module (BCM) input and output circuits are described in the corresponding functional areas indicated on the BCM electrical schematics. Some BCM functions with the subsystems may be as a gateway only or as an enable for the system. The BCM related systems/subsystems include, but are not limited to the following:

- Antilock brake system (ABS)—Refer to CELL Link Error - Link target cell (cell ID 1615) is invalid for this publication..
- Cruise control system—Refer to CELL Link Error - Link target cell (cell ID 10880) is invalid for this publication..
- Exterior lighting—Refer to Exterior Lighting Systems Description and Operation.
- Horn system —Refer to CELL Link Error - Link target cell (cell ID 48527) is invalid for this publication..
- Instrument cluster indicator control—Refer to CELL Link Error - Link target cell (cell ID 51540) is invalid for this publication..
- Interior lighting—Refer to Interior Lighting Systems Description and Operation.
- Power door lock system —Refer to Power Door Locks Description and Operation.
- Rear window defogger system —Refer to Rear Window Defogger Description and Operation.
- Remote function actuation (RFA) control—Refer to Keyless Entry System Description and Operation.
- Retained accessory power (RAP)—Refer to Retained Accessory Power Description and Operation.
- Shift lock control system —Refer to Automatic Transmission Shift Lock Control Description and Operation.
- Starting system—Refer to Starting System Description and Operation.
- Supplemental inflatable restraint (SIR) system —Refer to CELL Link Error - Link target cell (cell ID 62350) is invalid for this publication..
- Theft deterrent—Refer to CELL Link Error - Link target cell (cell ID 158436) is invalid for this publication..
- Wiper/Washer system functions—Refer to CELL Link Error - Link target cell (cell ID 61949) is invalid for this publication..

Data Link Communications Description and Operation

Circuit Description

The communication among control modules is performed primarily through the GMLAN high speed serial data circuit and the GMLAN low speed serial data circuits. The modules that need real time communication are attached to the high speed GMLAN network. The body control module (BCM) is the serial data gateway between the networks. The purpose of the gateway is to translate serial data messages between the GMLAN high speed bus and the GMLAN low speed bus. The Local Interconnect Network (LIN) is another serial data communication network used on this vehicle which is dedicated to the remote compass module (RCM) subsystem. Below are more detailed descriptions of the individual networks. The gateway will interact with each network according to that network's transmission protocol. Refer to Body Control System Description and Operation for more information about the gateway.

GMLAN High Speed Circuit Description

The data link connector (DLC) allows a scan tool to communicate with the high speed GMLAN serial data circuit. The serial data is transmitted on two twisted wires that allow speed up to 500 Kb/s. The twisted pair is terminated with two 120 ohms resistors. The resistors are used to reduce noise on the High Speed GMLAN bus during normal vehicle operation. The high speed GMLAN is a differential bus. The high speed GMLAN serial data (+) and high speed GMLAN serial data (−) are driven to opposite extremes from a rest or idle level. The idle level, which is approximately 2.5 volts, is considered recessive transmitted data and is interpreted as a logic 1. Driving the lines to their extremes, adds one volt to the high speed GMLAN serial data (+) and subtracts one volt from the high speed GMLAN serial data (−) wire. This dominant state is interpreted as a logic 0. GMLAN network management supports selective start up and is based on virtual networks. A virtual network is a collection of signals started in response to a vehicle event. The starting of a virtual network signifies that a particular aspect of the vehicles functionality has been requested. A virtual network is supported by virtual devices, which represents a collection of signals owned by a single physical device. So, any physical device can have one or more virtual devices. The signal supervision is the process of determining whether an expected signal is being received or not. Failsofting is the ability to substitute a signal with a default value or a default algorithm, in the absence of a valid signal. Some messages are also interpreted as a heartbeat of a virtual device. If such a signal is lost, the application will set a no communication code against the respective virtual device. This code is displayed on the Tech 2 screen as a code against the physical device. Note: a loss of serial data DTC does not represent a failure of the module that the code is set in.

GMLAN Low Speed Circuit Description

The data link connector (DLC) allows a scan tool to communicate with the low speed GMLAN serial data circuit. The serial data is transmitted over a single wire to the appropriate control modules. The transmission speed for GMLAN low speed is up to 83.33 Kb/s. Under normal vehicle operating conditions, the speed of the bus is 33.33 Kb/s. This protocol produces a simple pulse train sent out over the GMLAN low speed serial data bus. When a module pulls the bus high, 5 volts, this creates a dominant logic state or 0 on the bus. When the bus is pulled low, 0 volts, it is translated as a recessive logic state or 1. To wake the control modules connected to the GMLAN low speed serial data bus, a high voltage wake up pulse is sent out over the bus, the voltage level of the pules is +10 volts. Modules connected to the GMLAN low speed bus can be part of a virtual network as described in the previous paragraph. Most modules on the GMLAN low speed serial data bus are connected to the bus in a parallel configuration. Refer to the schematics to determine modules that are not in parallel

Local Interconnect Network (LIN) Description

The remote compass module (RCM) communicates with the BCM utilizing a single wire LIN communication link. The BCM is the gateway for the GMLAN network. All data is communicated on the LIN bus, therefore there are only 3 circuits to the RCM as follows:

- Ground
- LIN bus
- Voltage

Data Link Connector (DLC)

The data link connector (DLC) is a standardized 16-cavity connector. Connector design and location is dictated by an industry wide standard, and provides the following:

- Pin 1 GMLAN low speed communications terminal
- Pin 4 Scan tool power ground terminal
- Pin 5 Common signal ground terminal
- Pin 6 High speed GMLAN serial data bus (+) terminal
- Pin 14 High speed GMLAN serial data bus (−) terminal
- Pin 16 Scan tool power, battery positive voltage terminal

Serial Data Reference

The scan tool communicates over the various busses on the vehicle. When a scan tool is installed on a vehicle, the scan tool will try to communicate with every module that could be optioned into the vehicle. If an option is not installed on the vehicle, the scan tool will display No Comm for that options specific control module. In order to avert misdiagnoses of No Communication with a specific module, refer to CELL Link Error - Link target cell (cell ID 148085) is invalid for this publication. for a list of modules, the bus they communicate with, and the RPO codes for a specific module.

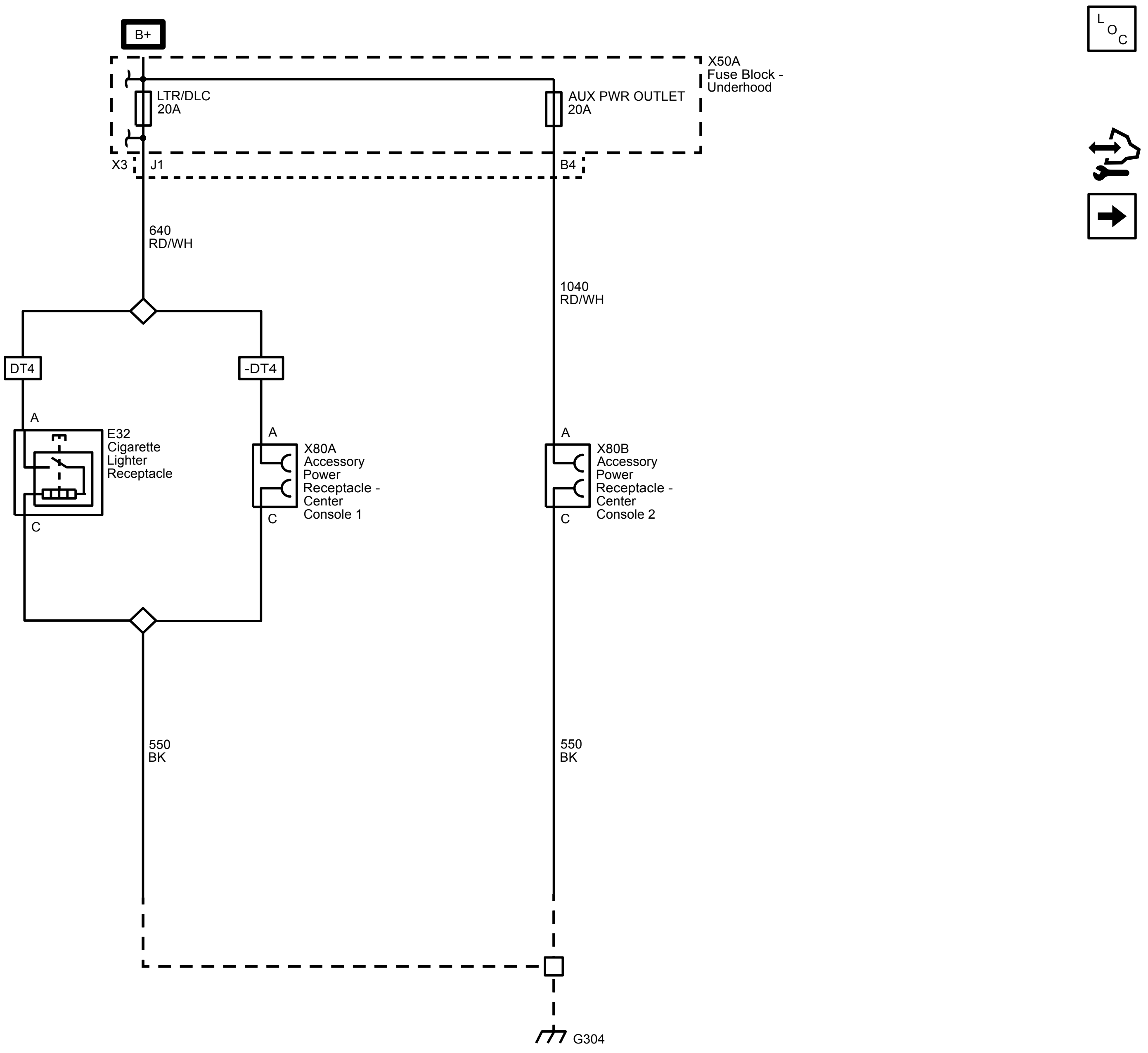
Power and Signal Distribution

Power Outlets

Schematic and Routing Diagrams

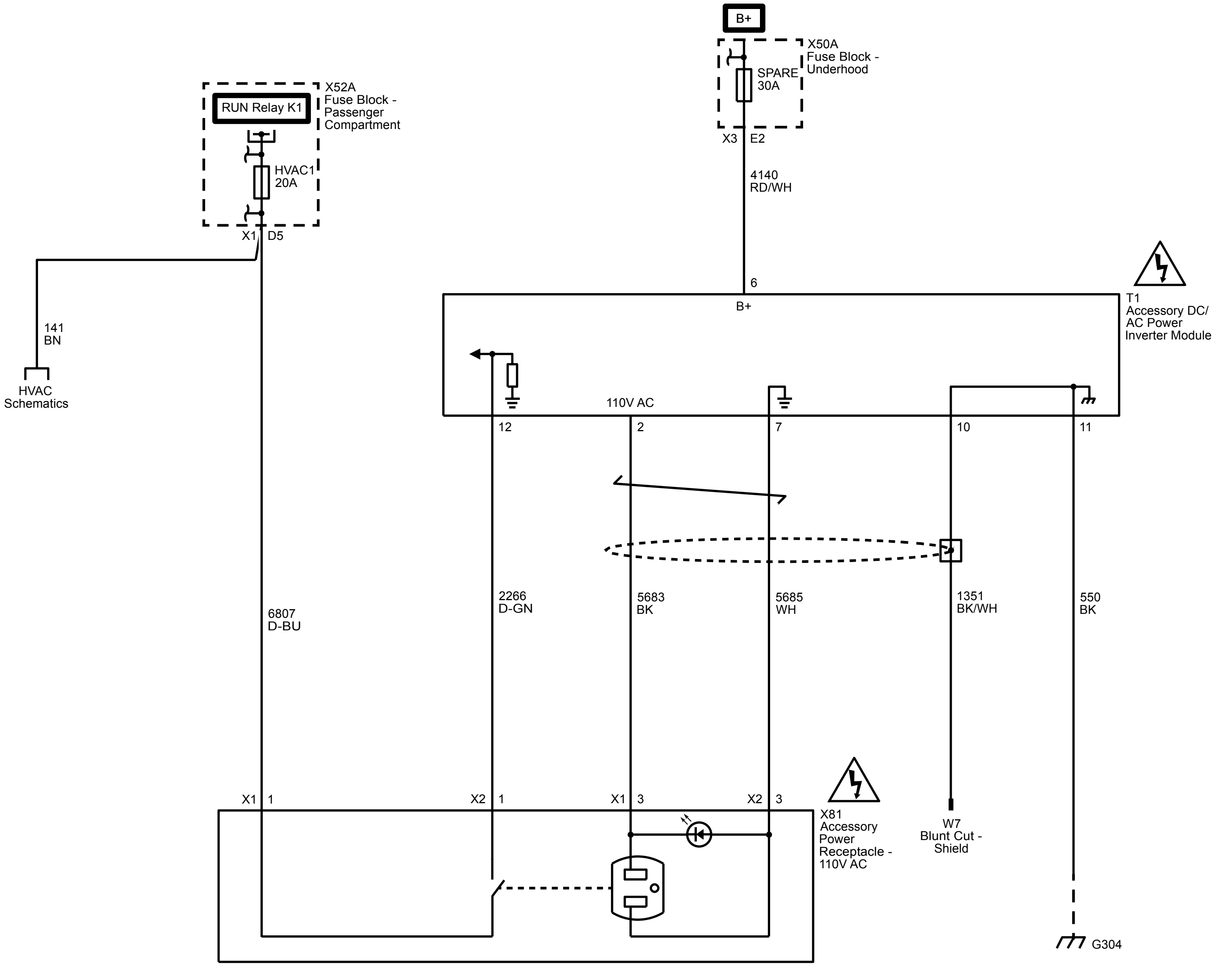
Cigar Lighter/Power Outlet Schematics

Cigar Lighter/Power Outlet



B+
X50A
Fuse Block - Underhood
LTR/DLC
20A
AUX PWR OUTLET
20A
X3
J1
B4
640
RD/WH
1040
RD/WH
DT4
-DT4
A
E32
Cigarette Lighter Receptacle
C
A
X80A
Accessory Power Receptacle - Center Console 1
C
A
X80B
Accessory Power Receptacle - Center Console 2
C
550
BK
550
BK
G304
L
O
C

110V AC Outlet (KV1)


B+
X50A
Fuse Block -
Underhood
SPARE
30A
X3
E2
4140
RD/WH
RUN Relay K1
X52A
Fuse Block -
Passenger
Compartment
HVAC1
20A
X1
D5
141
BN
HVAC
Schematics
6
B+
T1
Accessory DC/
AC Power
Inverter Module
110V AC
12
2
7
10
11
6807
D-BU
2266
D-GN
5683
BK
5685
WH
1351
BK/WH
550
BK
X1
1
X2
1
X1
3
X2
3
X81
Accessory
Power
Receptacle -
110V AC
W7
Blunt Cut -
Shield
G304

Description and Operation

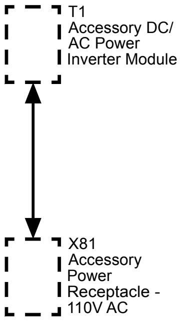
Power Outlets Description and Operation

12 Volt Power Outlet Receptacle Description and Operation

The 12 V accessory power receptacles are supplied B+ all the time.

110 Volt Power Outlet Receptacle System Description

Power Outlets Block Diagram


T1
Accessory DC/AC Power Inverter Module
X81
Accessory Power Receptacle - 110V AC

The alternating current (AC) accessory power outlet system consists of the accessory DC/AC power inverter module and the accessory power receptacle – 110 V AC. The accessory DC/AC power inverter module converts 12 V direct current (DC) battery power to 110 V at 60 Hertz (Hz) AC power to operate AC powered devices. The accessory DC/AC power inverter module provides up to 150 watts of power. The accessory power receptacle – 110 V AC provides the usual connection for AC powered devices.

110 Volt Power Outlet Receptacle System Operation

The accessory DC/AC power inverter module receives fuse protected battery voltage and is connected to the 12 V electrical system ground. The accessory power receptacle – 110 V AC has an internal switch, that detects when an AC powered device is plugged into the outlet. When the ignition is ON, and an AC powered device is plugged into the accessory power receptacle – 110 V AC, the normally open switch in the accessory power receptacle – 110 V AC, closes. When the accessory DC/AC power inverter module detects the voltage from the accessory power receptacle – 110 V AC switch, the inverter module begins to supply 110 V AC to the accessory power receptacle – 110 V AC after a 1.5 second delay. The accessory AC power system is protected against circuit overload and circuit shorts to ground.

110 Volt Power Outlet Receptacle Isolation Fault Protection

The accessory DC/AC power inverter module contains a ground fault circuit interrupter (GFCI). GFCI monitors the 110 V circuit for a short to vehicle chassis ground. If a 110 V AC short to ground is detected, the accessory DC/AC power inverter module will turn OFF. The module remains OFF, until the AC powered device is unplugged from the outlet, and then plugged into the outlet after a 3 second delay.

110 Volt Power Outlet Receptacle Overload Shutdown

The accessory DC/AC power inverter module will turn OFF if the current in the 110 V circuit is greater than 3.8 A for 1 second, or 2.5 A for 10 seconds. The module will turn ON again, when the AC powered device is unplugged from the outlet, and then plugged into the outlet after a 3 second delay.

110 Volt Power Outlet Receptacle Internal Shutdown

The accessory DC/AC power inverter module will turn OFF if the B+ supply voltage is greater than 16.5 V or less than 11 V. The module will also turn OFF if the device temperature is greater than 85°C (185°F). The module will turn ON again, after the shutdown condition is corrected, and the AC powered device is unplugged from the outlet, and then plugged into the outlet.

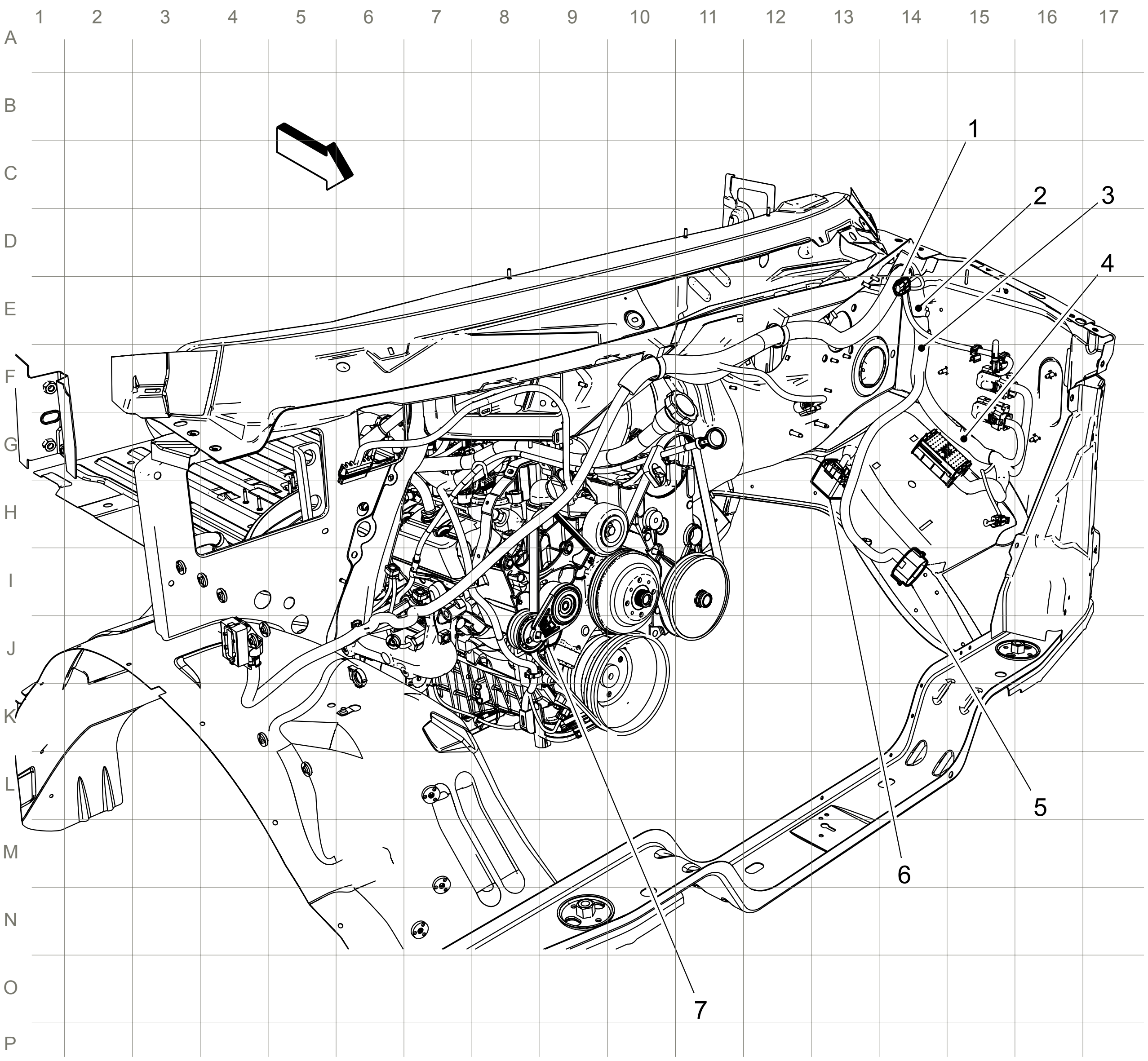
Power and Signal Distribution

Wiring Systems and Power Management

Schematic and Routing Diagrams

Harness Routing Views

Engine Harness Routing - Front (LU3)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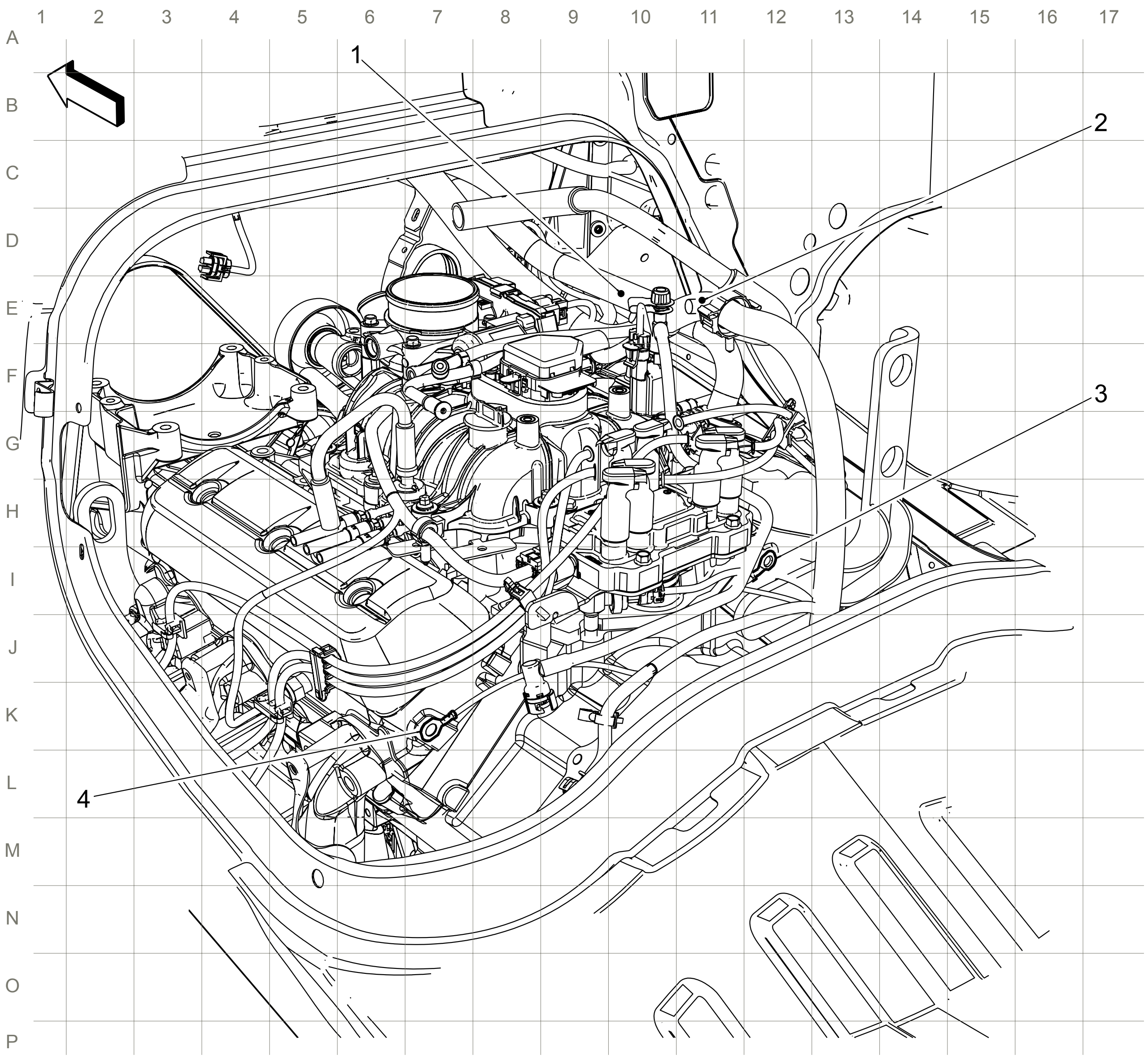
Items

1.	X109
2.	J115
3.	J120 (LU3)
4.	J123
5.	X100
6.	X101
7.	X176 (LU3)

Engine Harness Routing - Left Rear (LU3)



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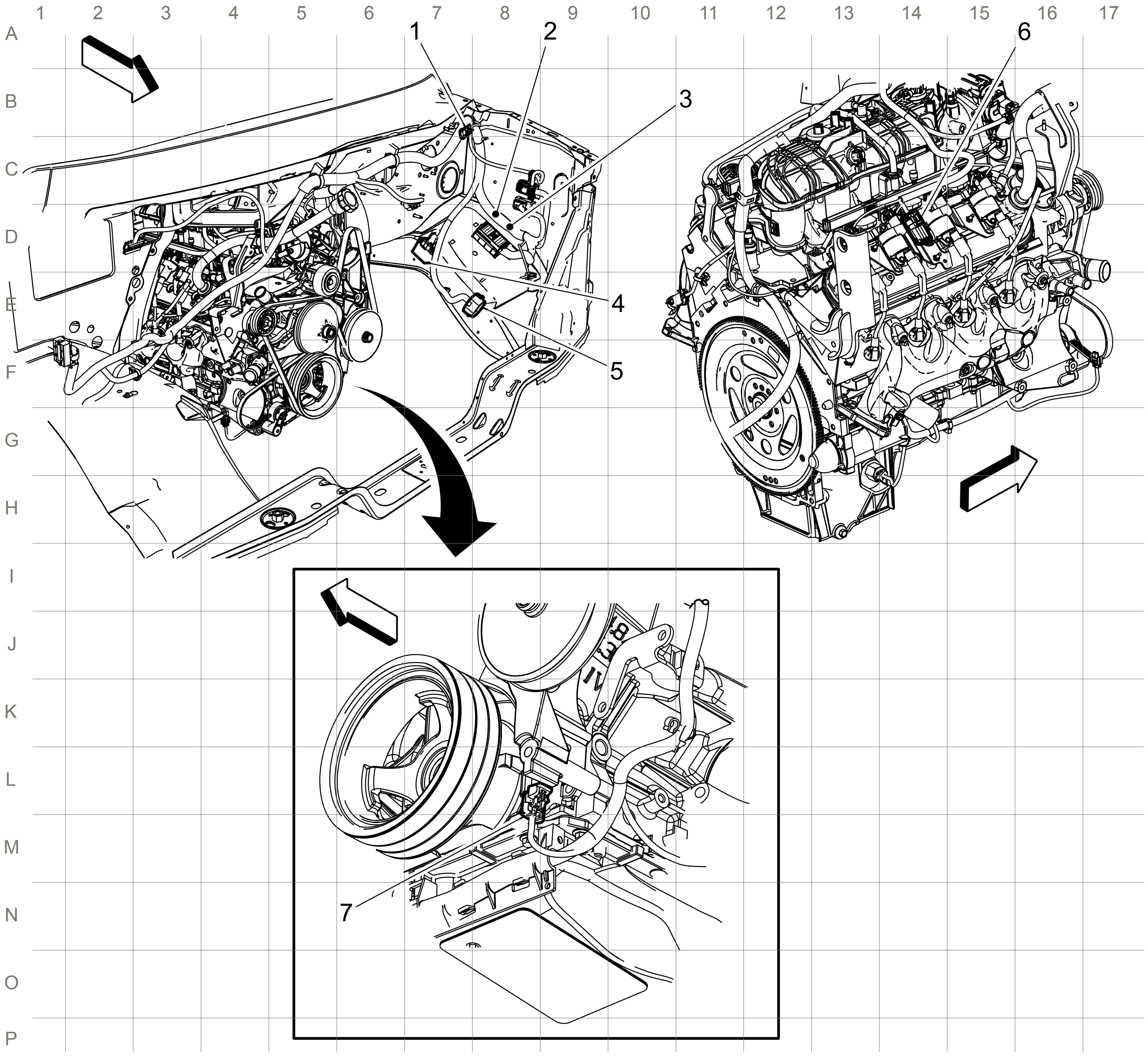
Items

1. J101
2. J102
3. G102
4. G103

Engine Harness Routing - Front (LMF)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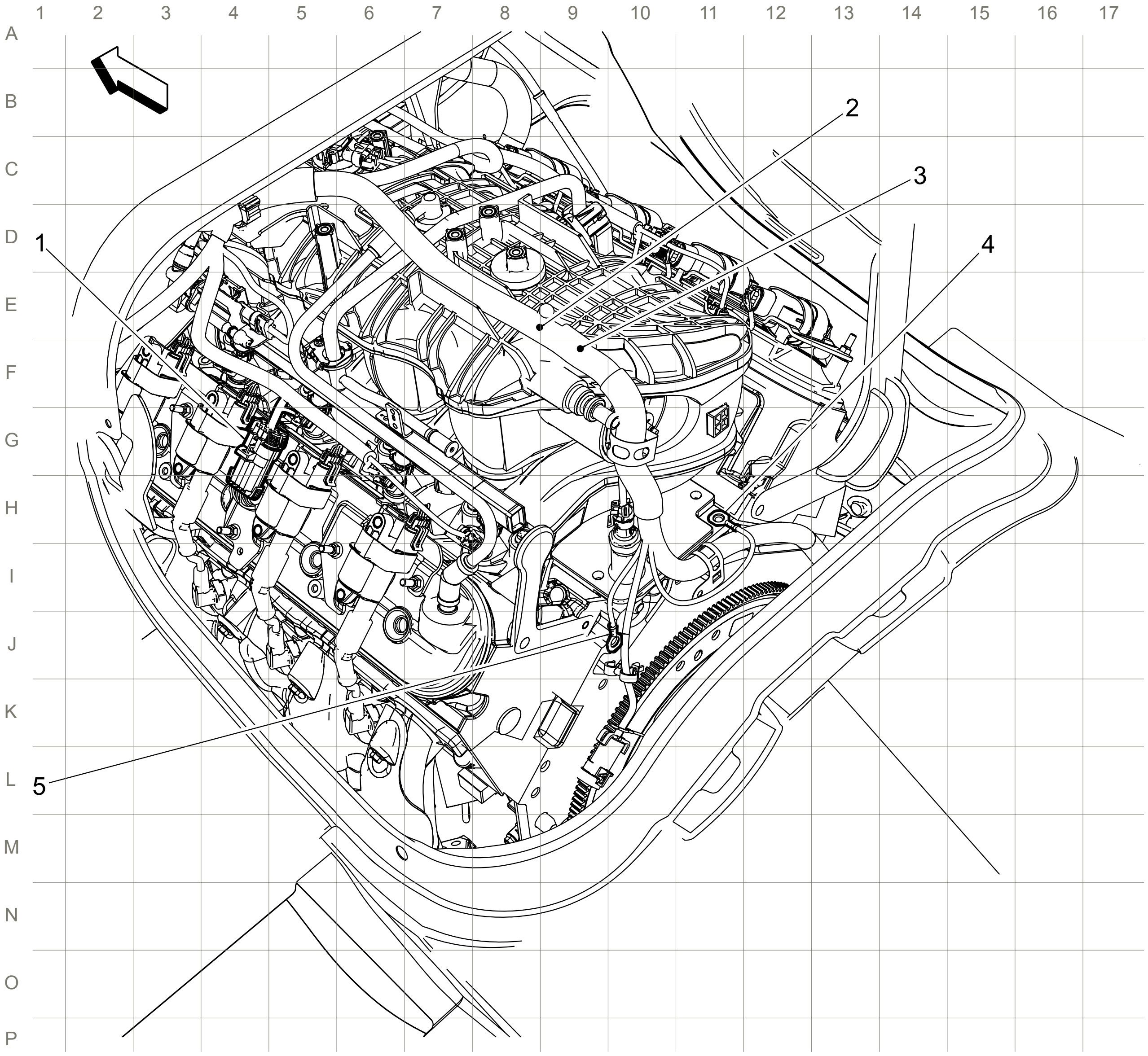
Items

1. X109
2. J115
3. J123
4. X101
5. X127 (L20, LMF, L96 or LC8)
6. X127 (L20, LMF, L96 or LC8)
7. X177

Engine Harness Routing - Left Rear (LMF)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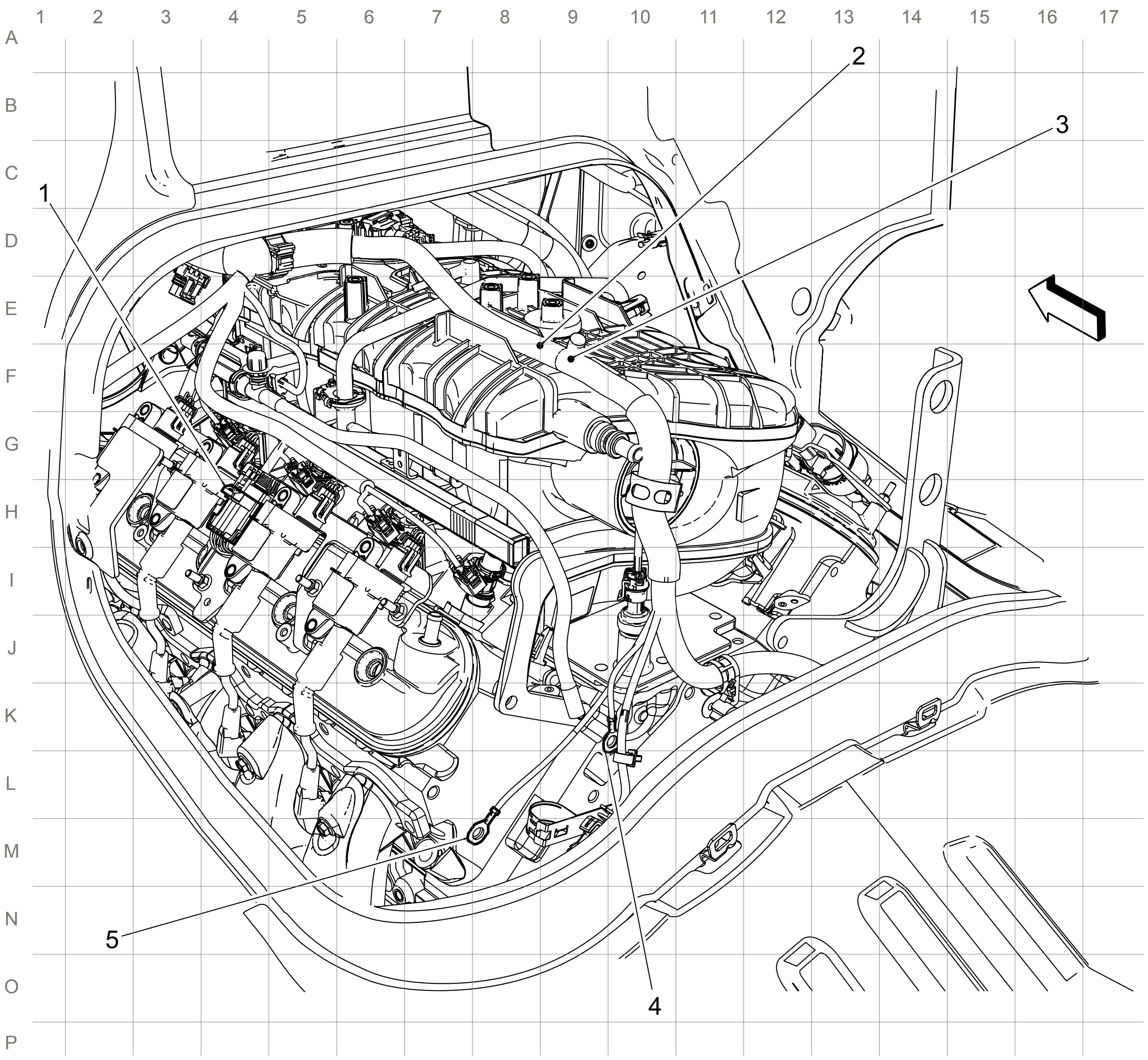
Items

1.	X126 (L20, LMF, L96 or LC8)
2.	J102
3.	J101
4.	G102
5.	G103

Engine Harness Routing - Left Rear (LC8, L20, or L96)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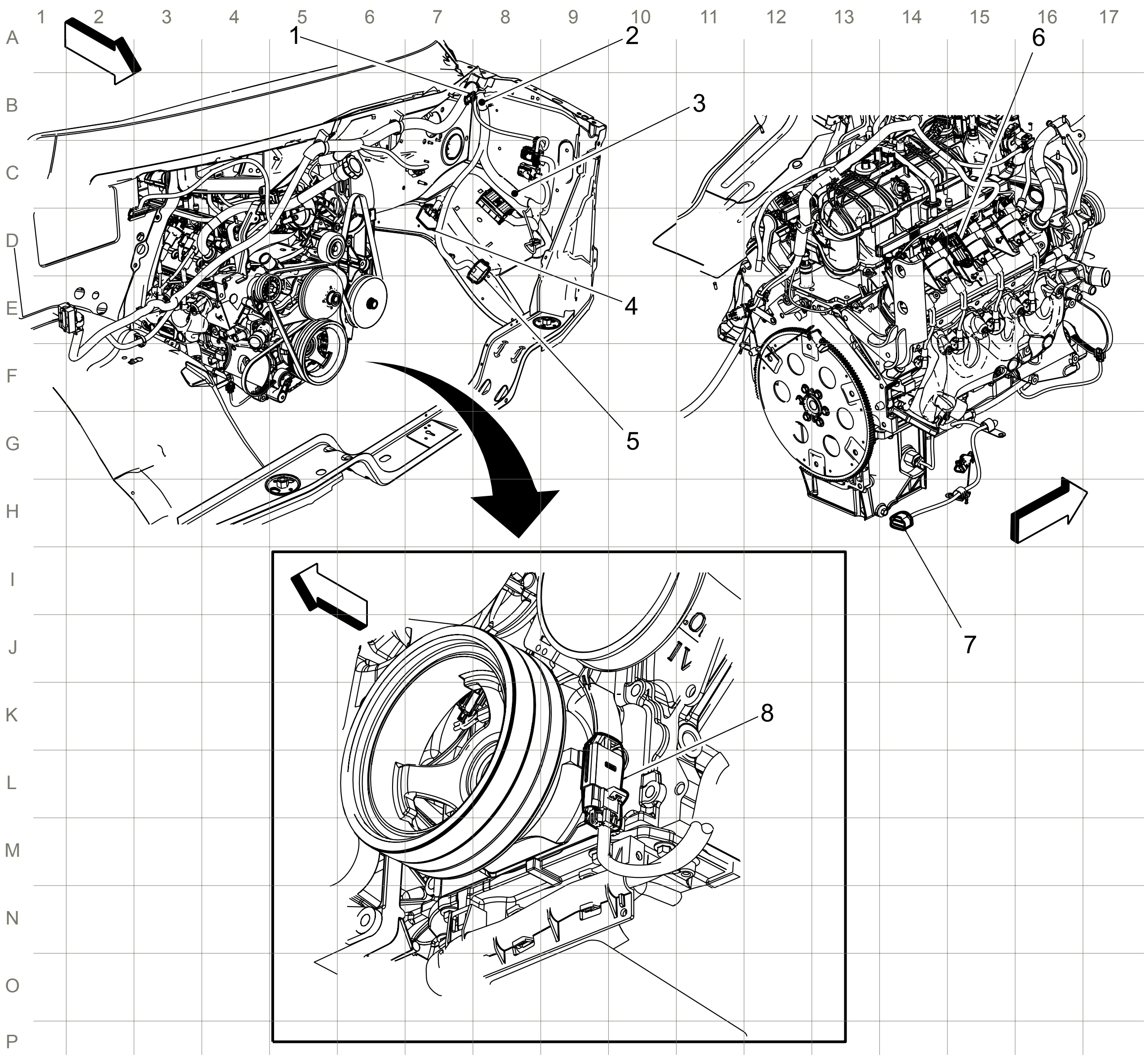
Items

1. X126 (L20, LMF, L96 or LC8)
2. J101
3. J102
4. G103
5. G102

Engine Harness Routing - Front (LC8, L20, or L96)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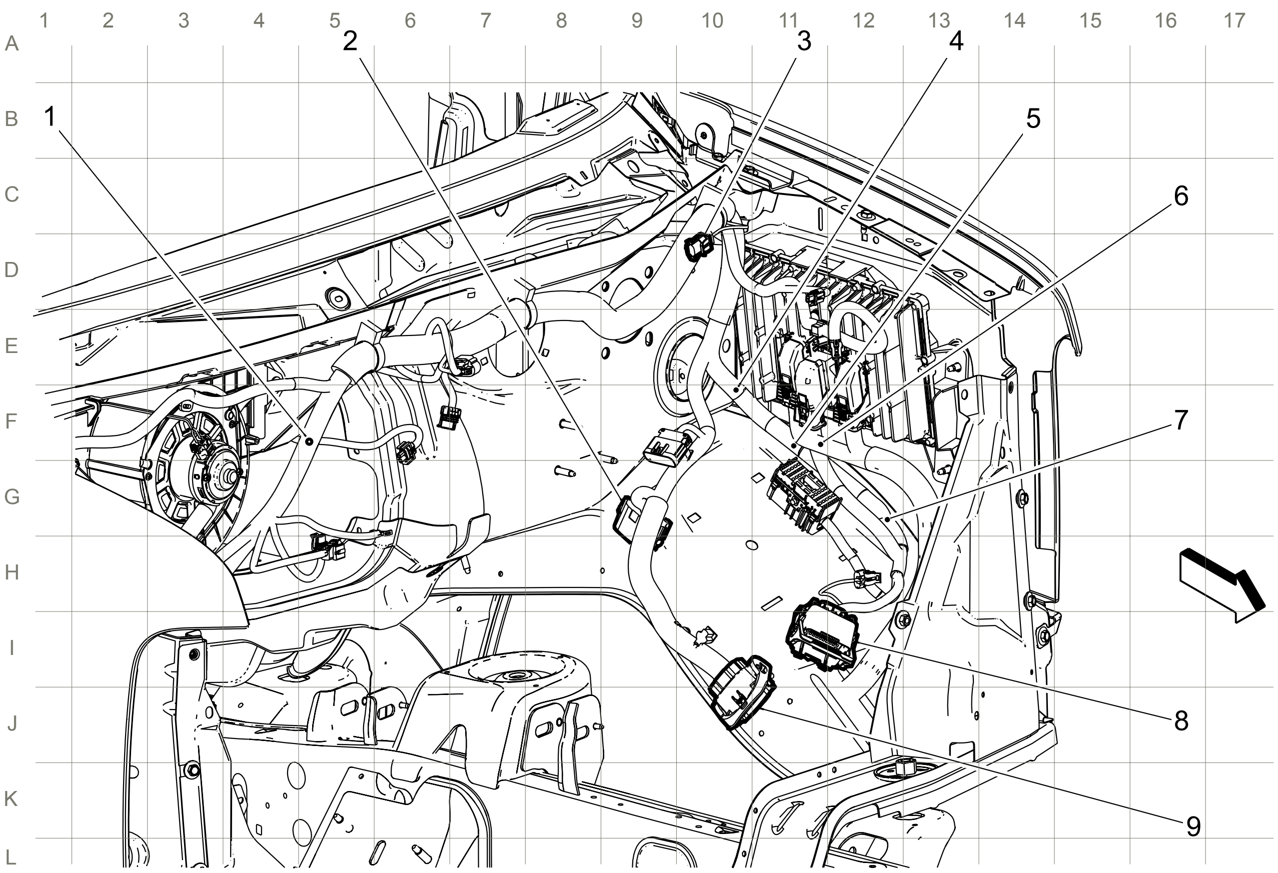
Items

1. X109
2. J115
3. J123
4. X101
5. X100
6. X126 (L20, LMF, L96 or LC8)
7. X128 (L20, L96 or LC8)
8. X177

Engine Harness Routing (LGH)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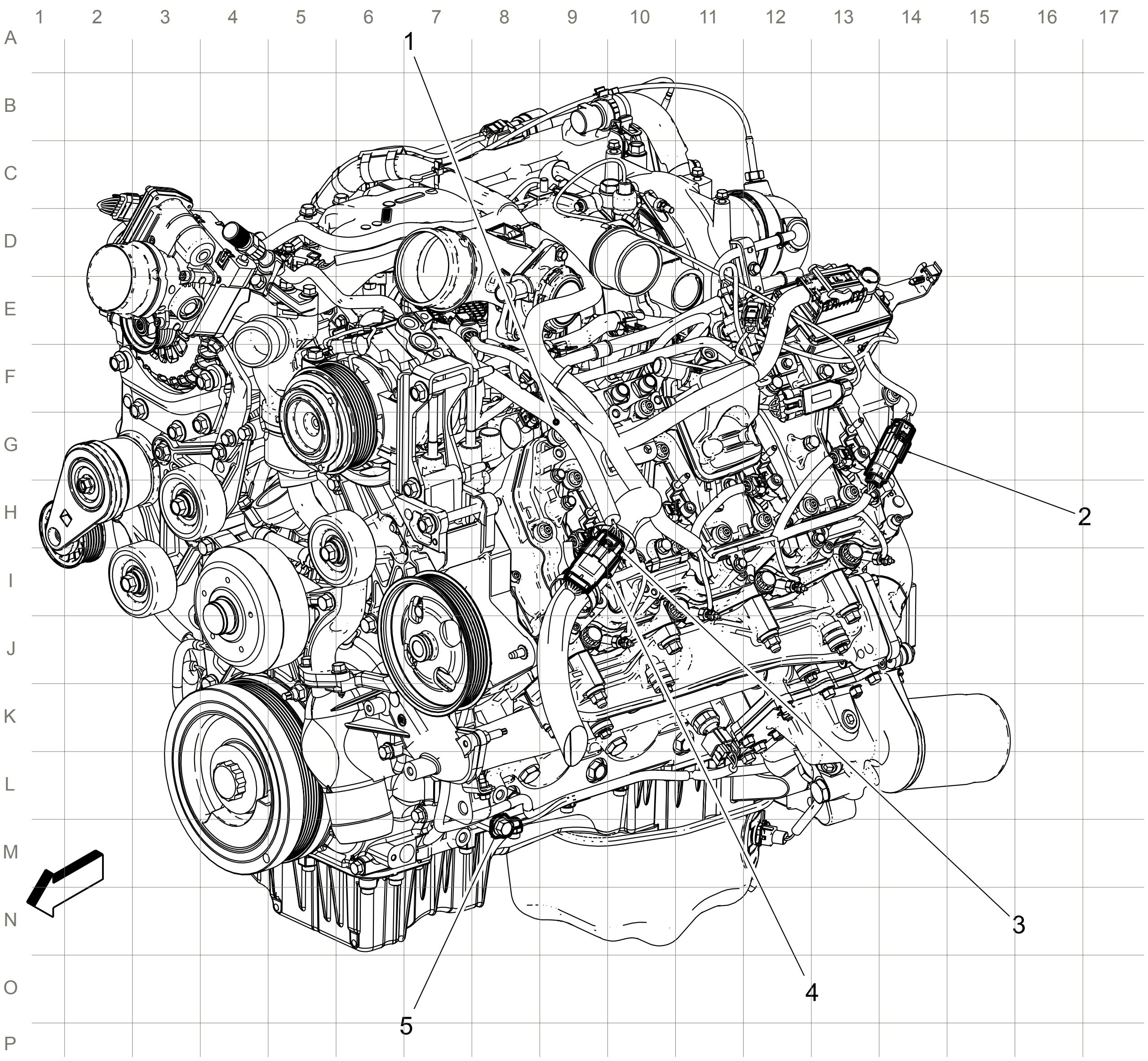
Items

1.	J102
2.	X101
3.	X109
4.	J123
5.	J115
6.	J161 (LGH)
7.	J101
8.	X107 (LGH)
9.	X100

Left Front of Engine Harness Routing (LGH)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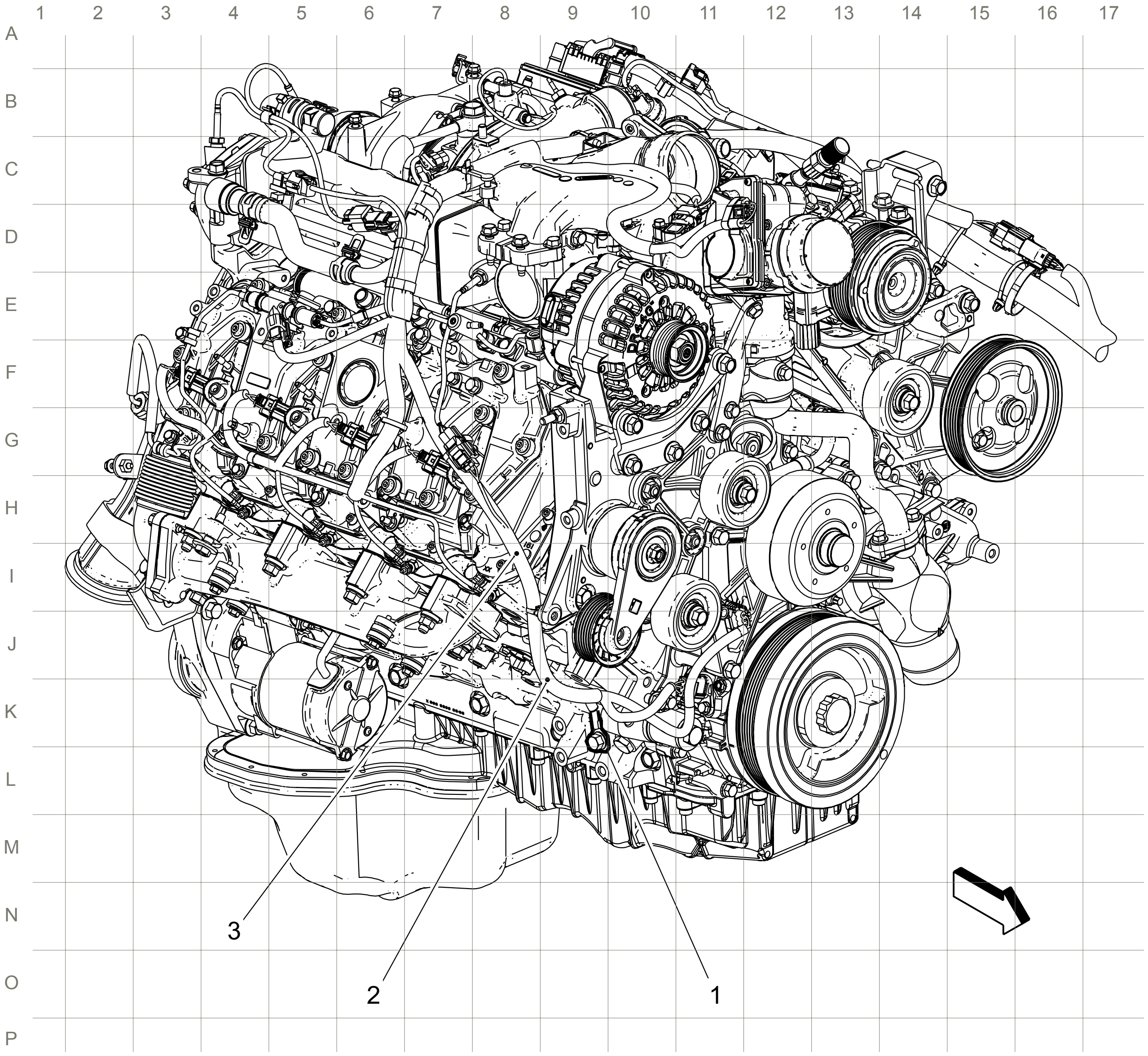
Items

1. J164 (LGH)
2. X112 (LGH)
3. X110 (LGH)
4. J160 (LGH)
5. G110

Right Front of Engine Harness Routing (LGH)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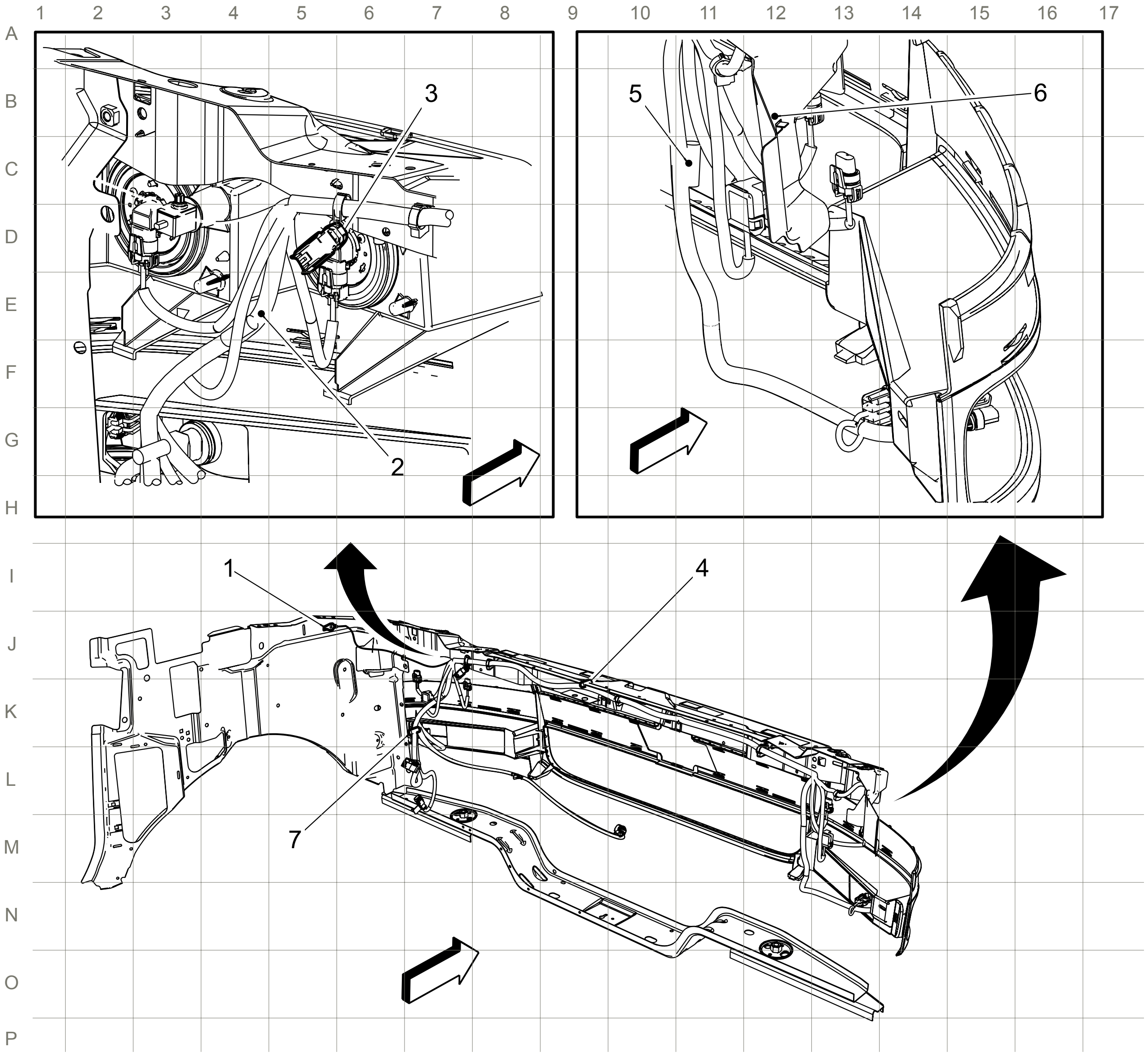
Items

1. G109 Ground
2. J163 (LGH)
3. J162 (LGH)

Forward Lamp Harness Routing



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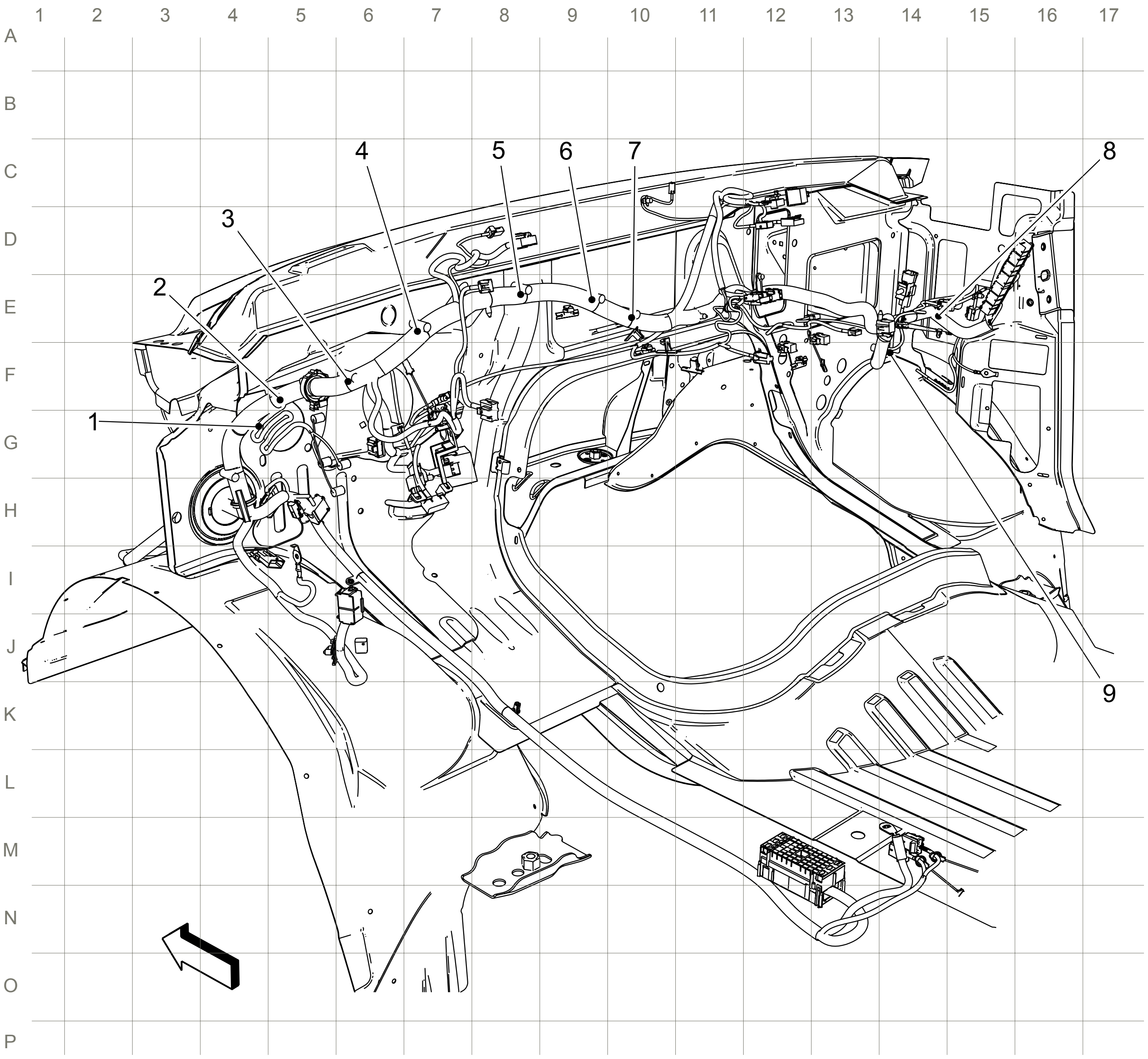
Items

1. G100
2. J110
3. X150 (UFA)
4. J121
5. J118
6. G101
7. J122

Instrument Panel Harness Routing - Splices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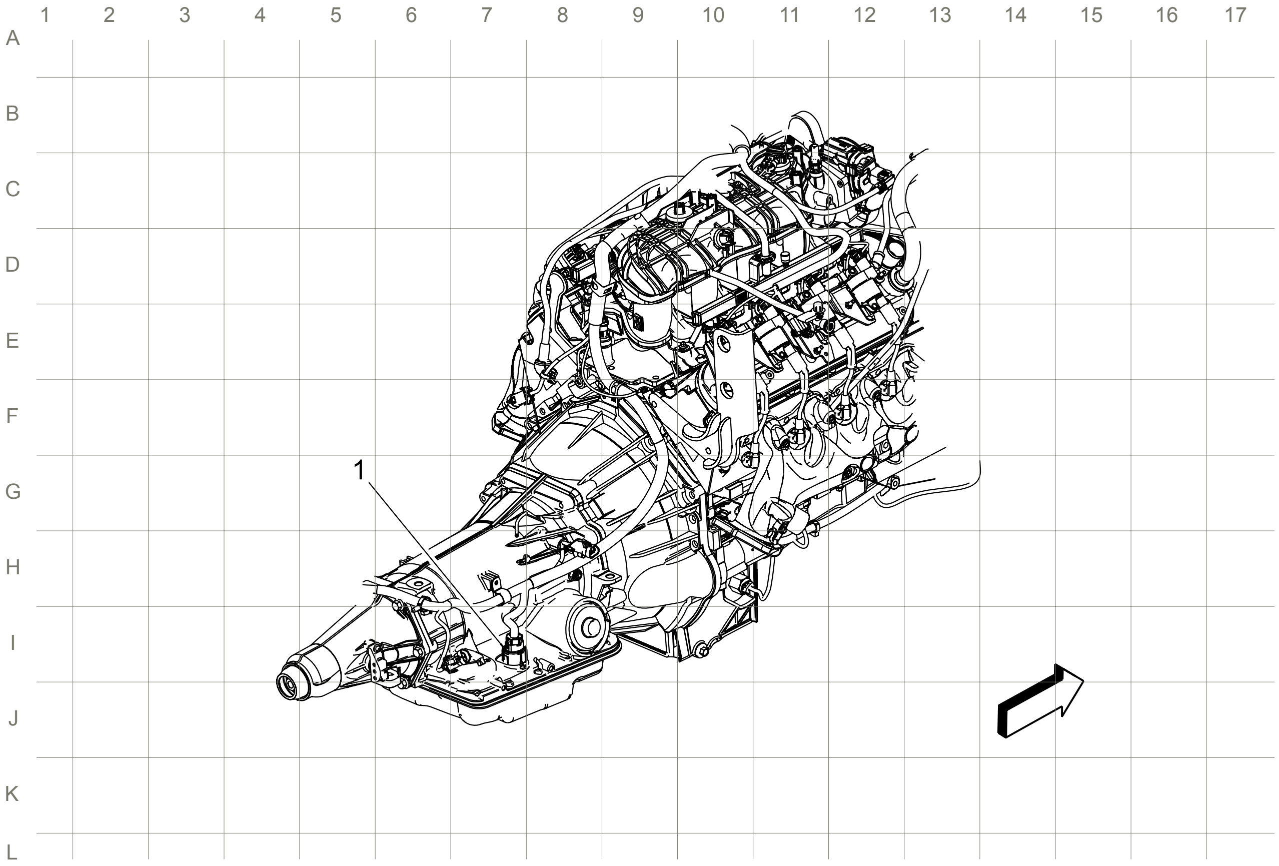
Items

1. J247
2. J244
3. J231
4. J248
5. J207
6. J246 (DE7)
7. J245 (DE7)
8. J249
9. J250

Automatic Transmission Harness Routing (M30)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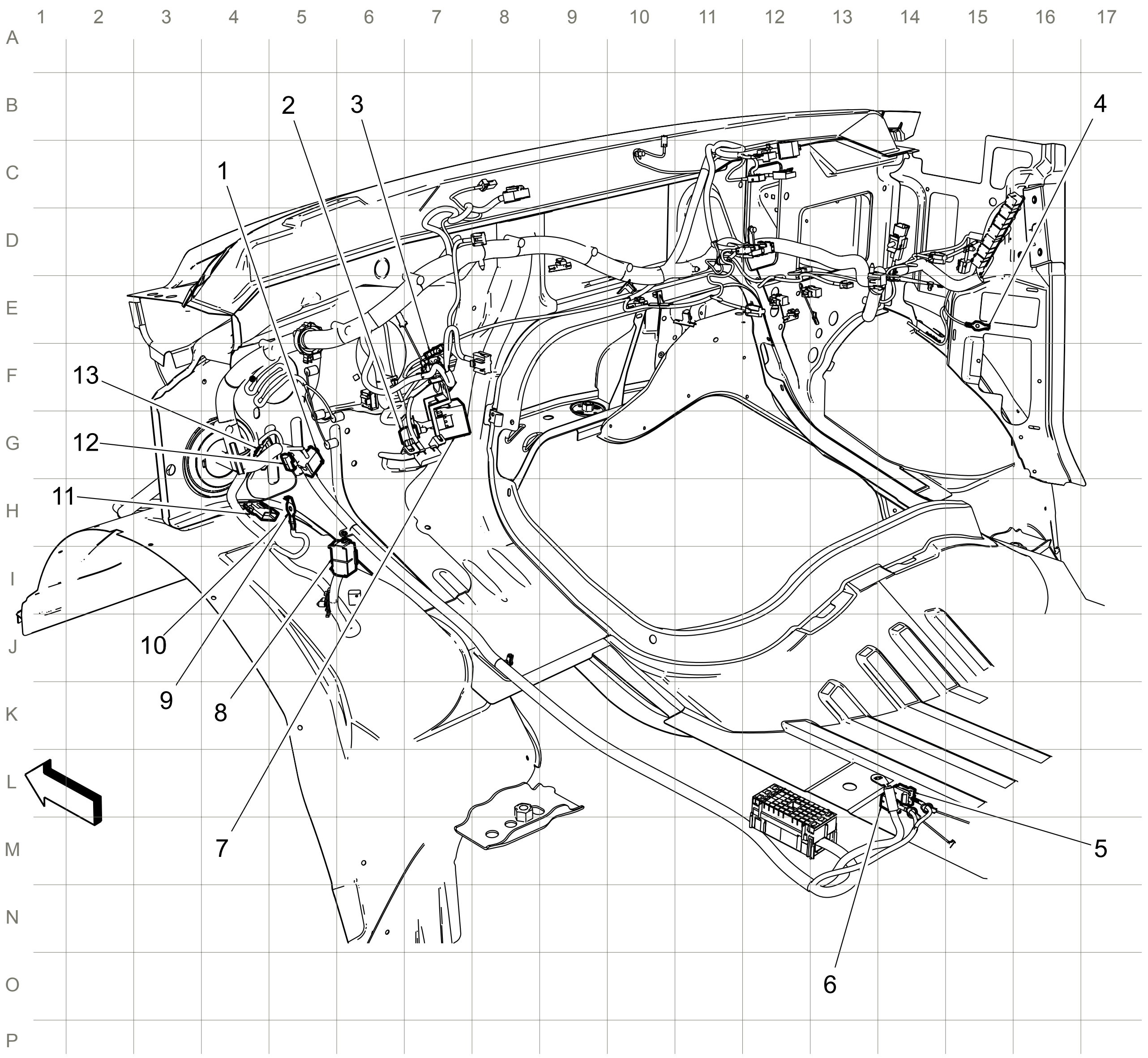
Items

1. X175 (M30)

Instrument Panel Harness Routing - Passenger Compartment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Items

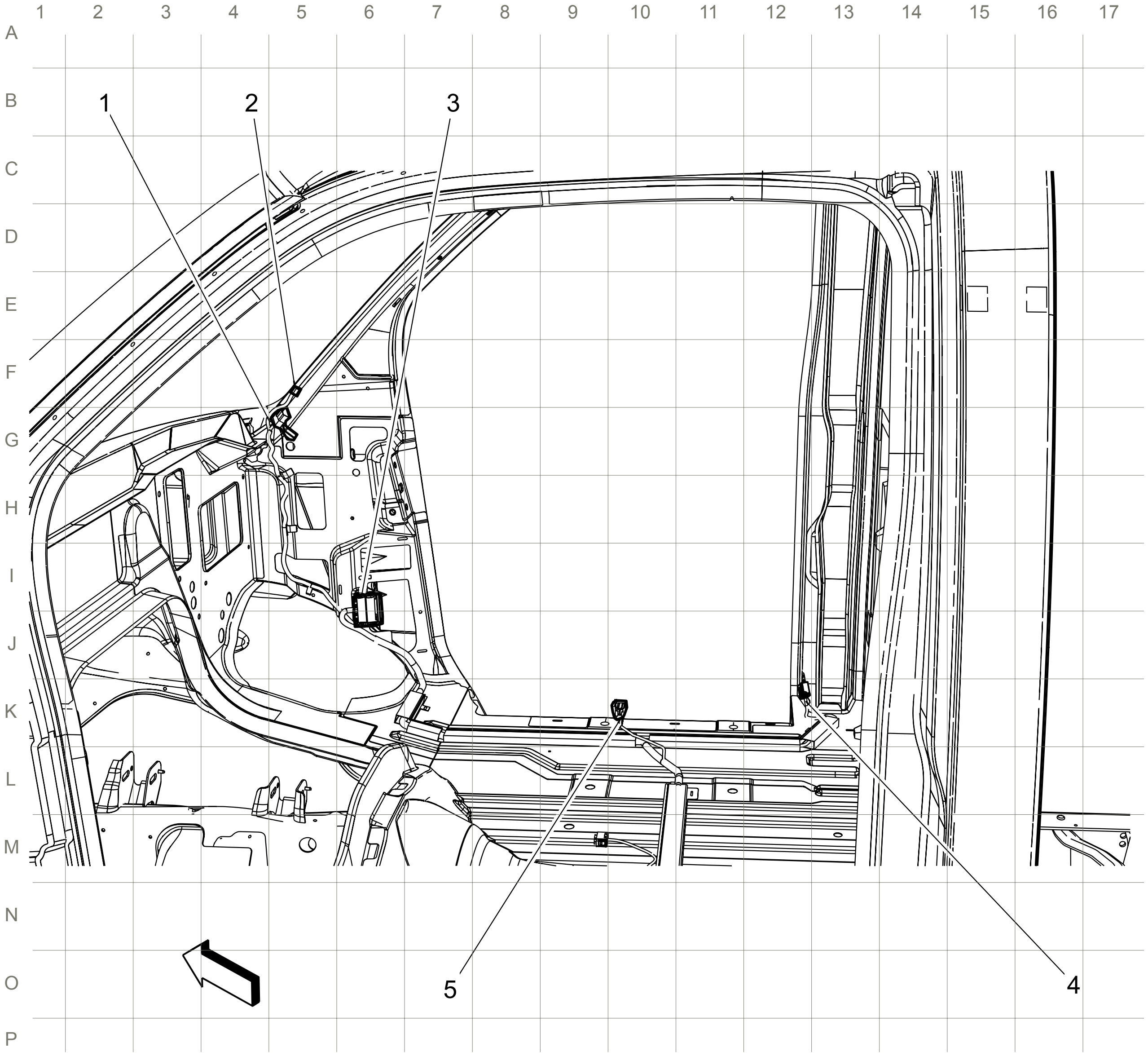
1. JX250
2. X221
3. X276
4. G304
5. X331
6. X330
7. X200
8. X318
9. G301
10. G302
11. X222 (YF2 or YF7)

11. X222 (YF2 or YF7)

12. X220

13. JX200

Body Harness Routing - Right Front Passenger Compartment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Items

1. X205

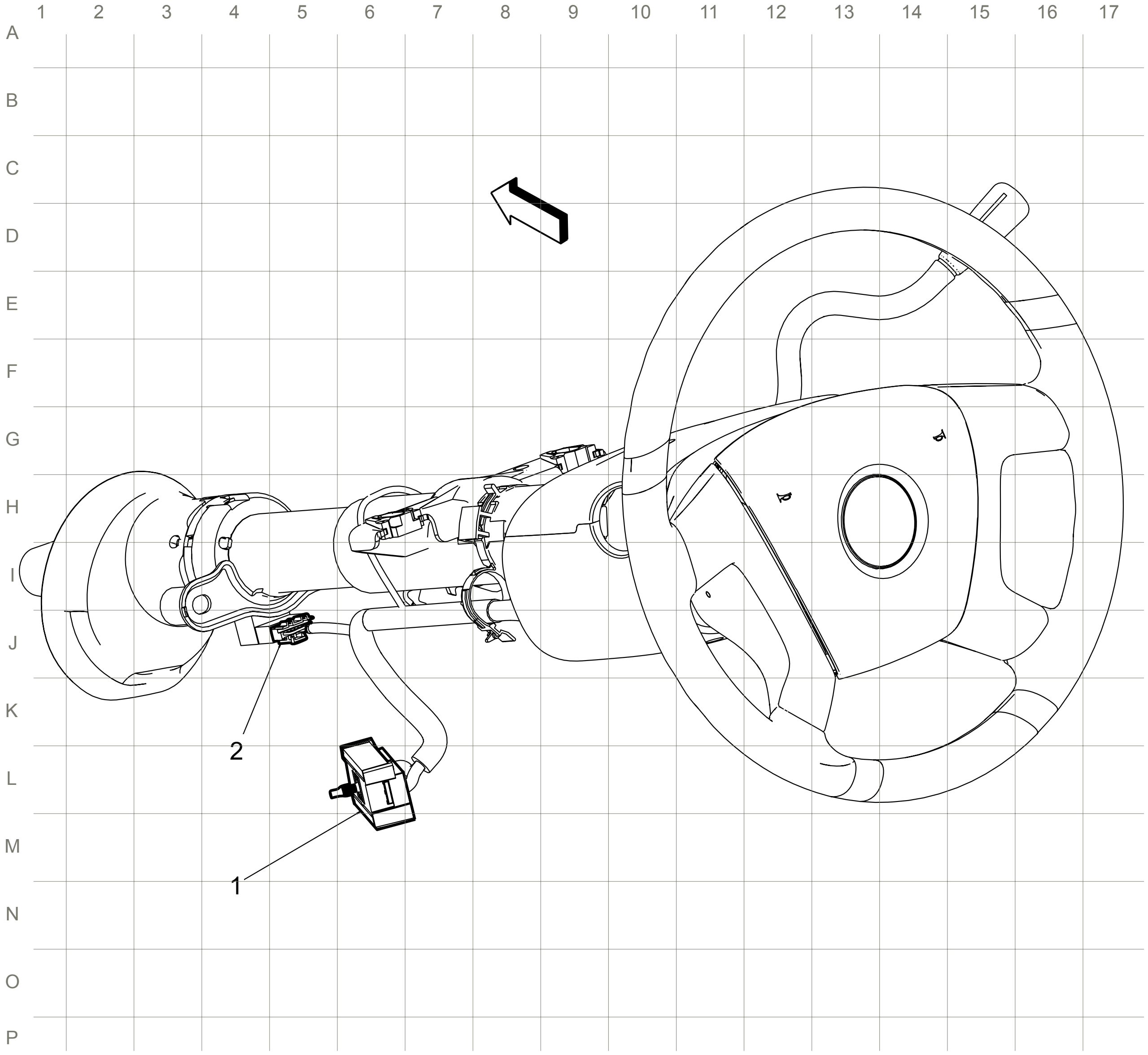
2. X204 (UVC)

3. X600

4. JX348

5. X306

Steering Column Harness Routing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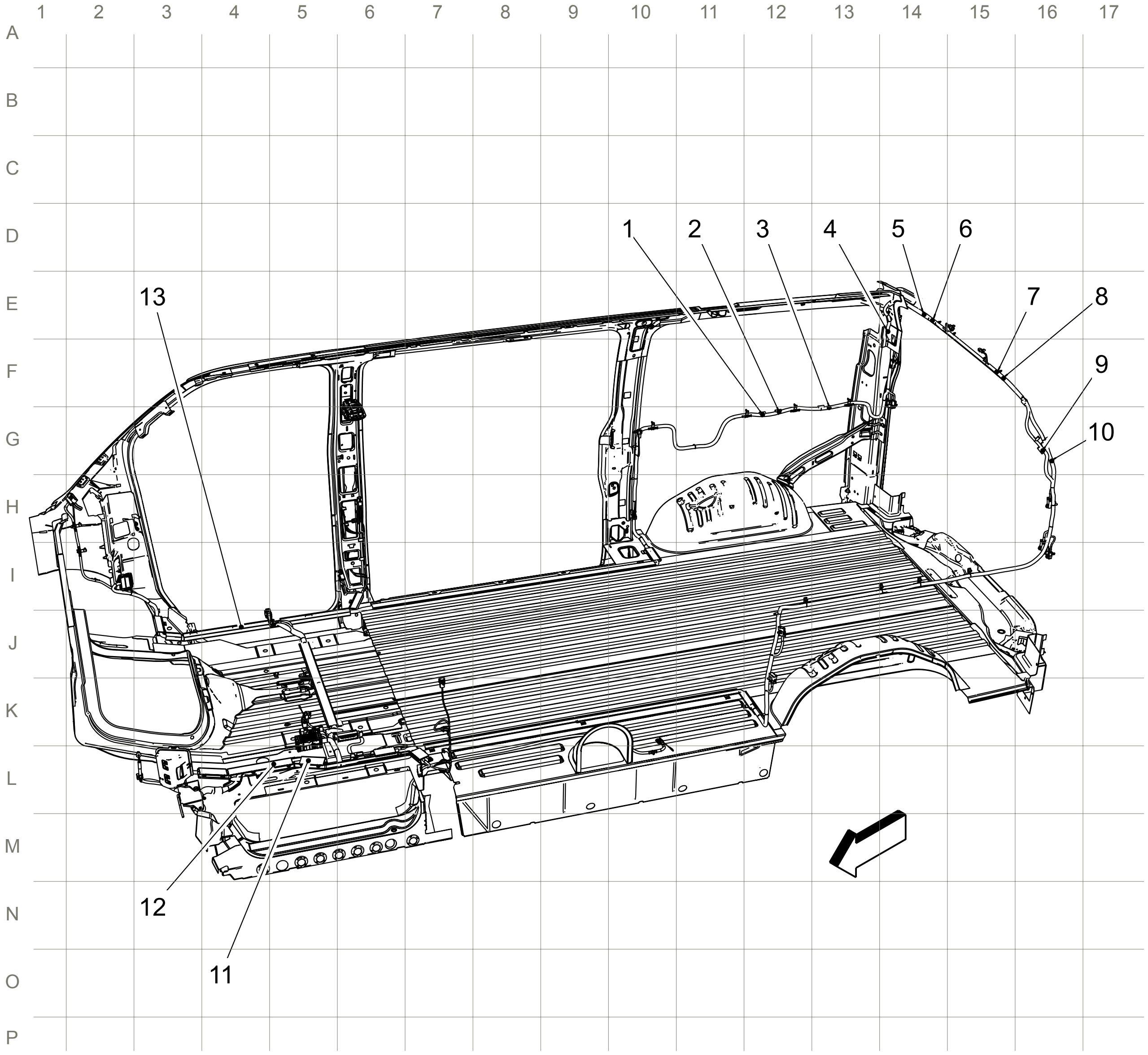
Items

1. X200
2. B99 Steering Wheel Angle Sensor (JL4)

Body Harness Routing - Splices (Passenger or Cargo)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Items

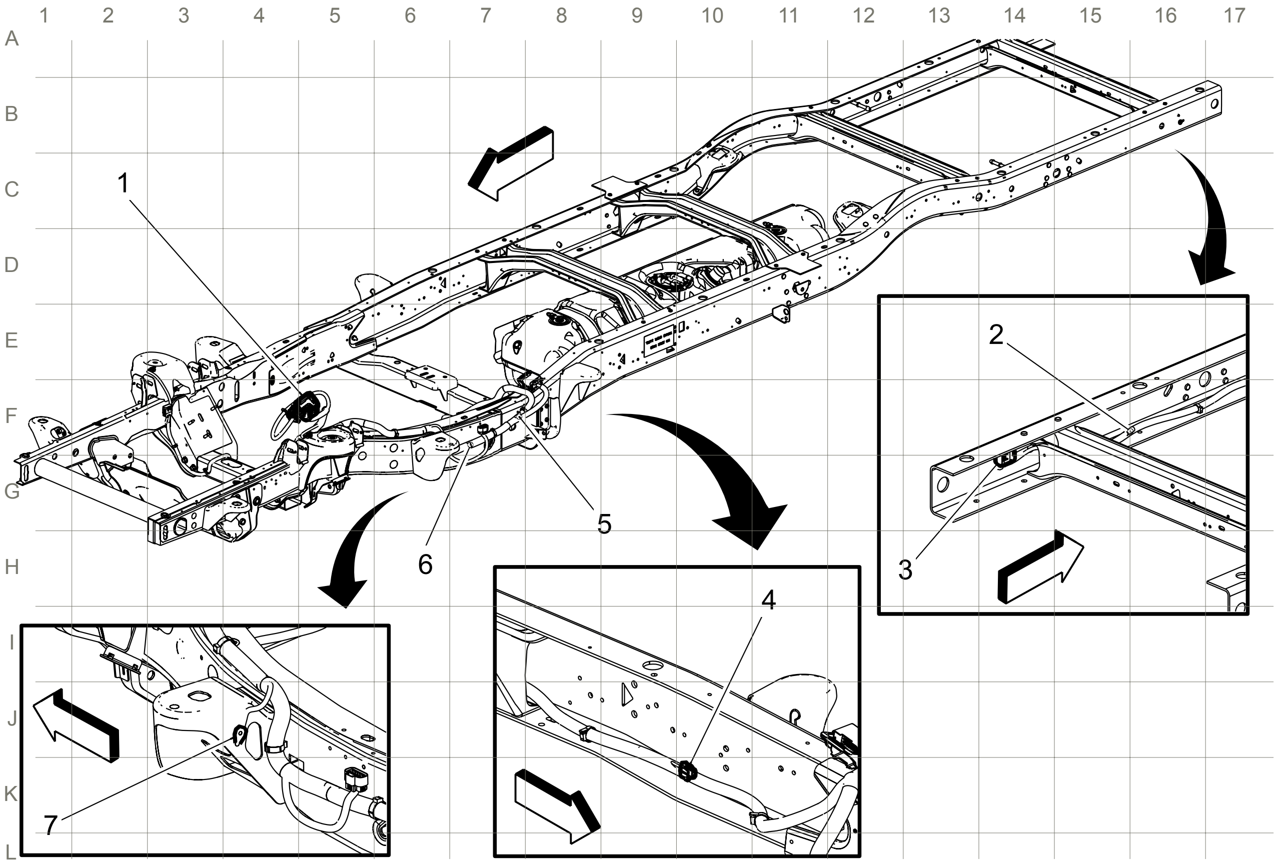
1. J308
2. J310
3. J311
4. J403
5. J451
6. J450
7. J453
8. J452
9. J410
10. J401
11. J356 (C69 or AU3)

11. J356 (C69 or AU3)

12. J318 (ASF)

13. J331 (Passenger)

Chassis Harness Routing (LGH)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Items

1. X101

2. J404

3. X395

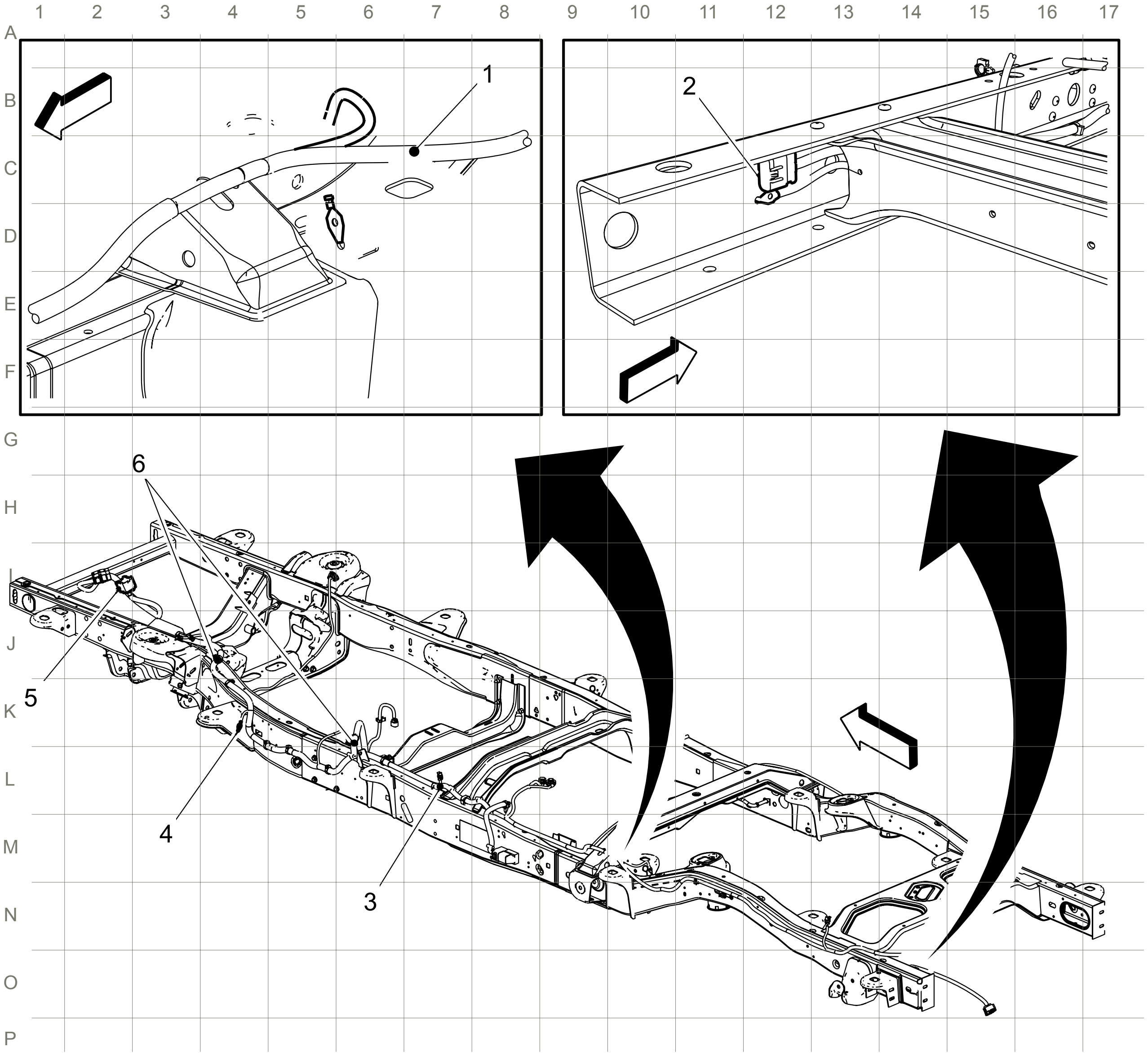
4. X305 (K08)

5. J315

6. J119 (LGH)

7. G300

Chassis Harness Routing (LC8, LMF, LU3, L20, or L96)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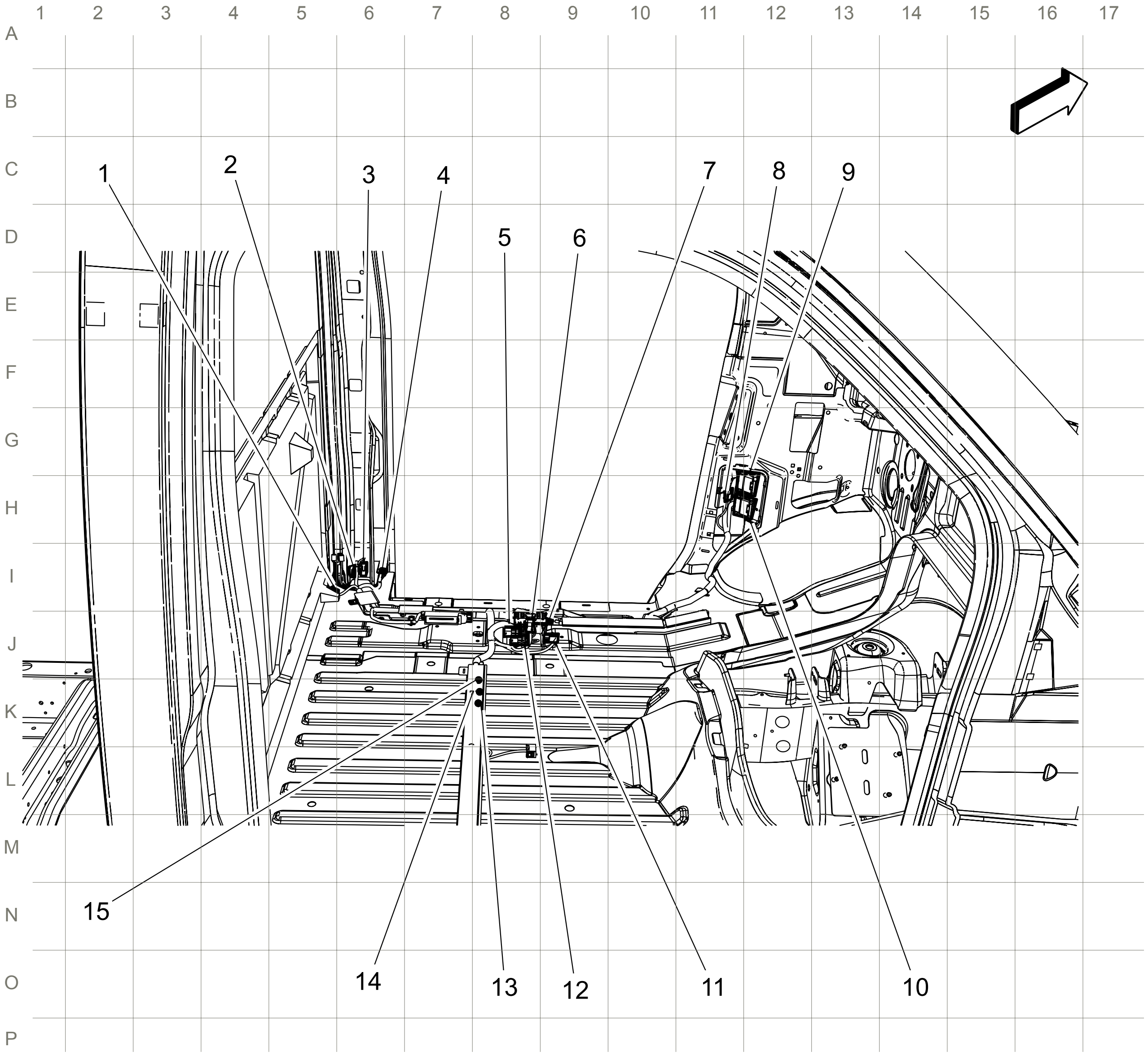
Items

1. J402
2. X405
3. J301
4. G300
5. X101
6. J315

Body Harness Routing - Left Front Passenger Compartment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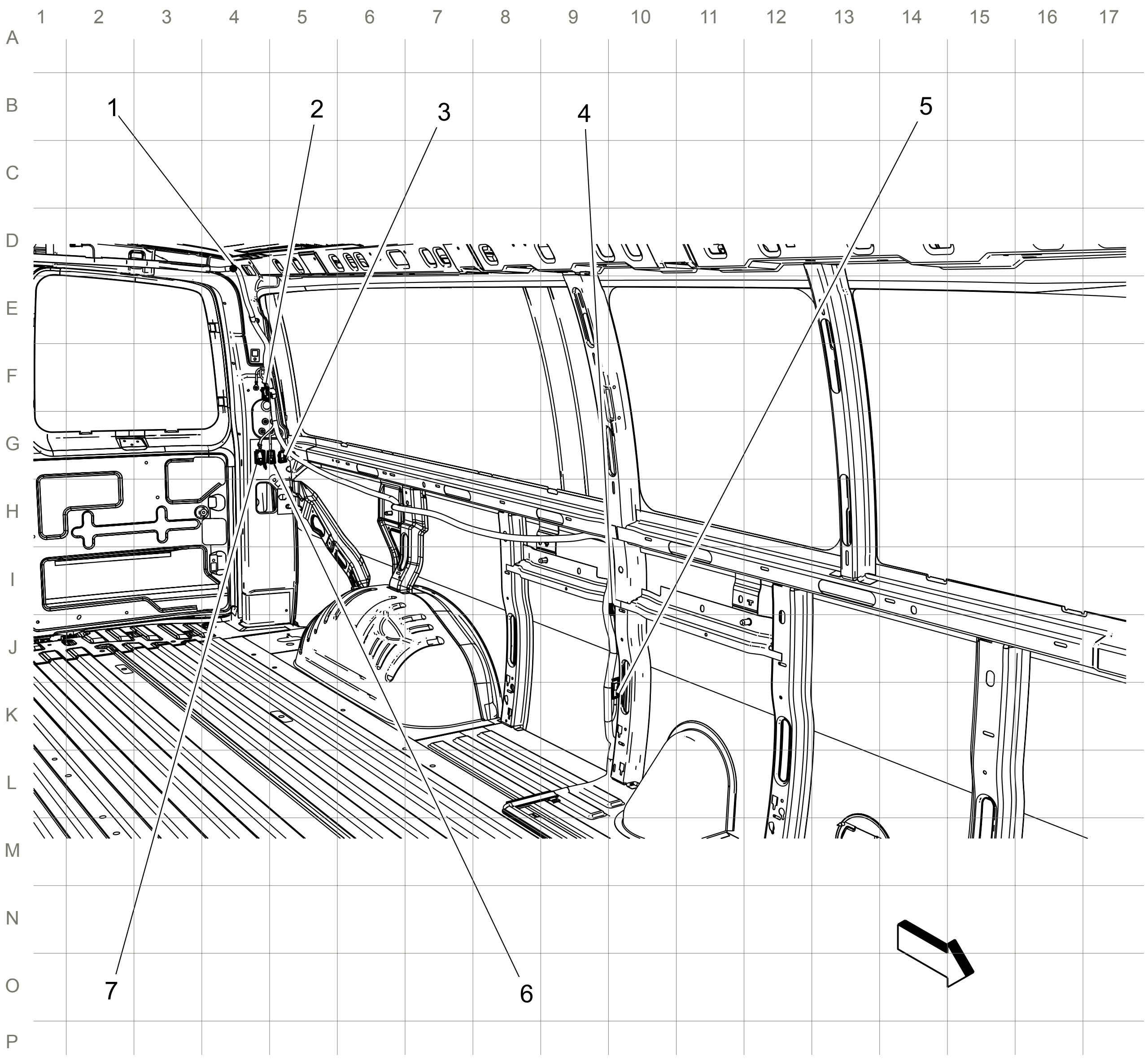
Items

1.	X403 (UVC)
2.	X409 (C36 with C69)
3.	X407 (C36 with C69)
4.	JX347
5.	X330
6.	X331
7.	J356 (C69 or AU3)
8.	X319 (C36 or ENC)
9.	X318
10.	X500
11.	X329 (UVC)

11. X329 (UVC)
12. X331
13. J371
14. J370
15. J372

Body Harness Routing - Right Rear (Passenger or Cargo)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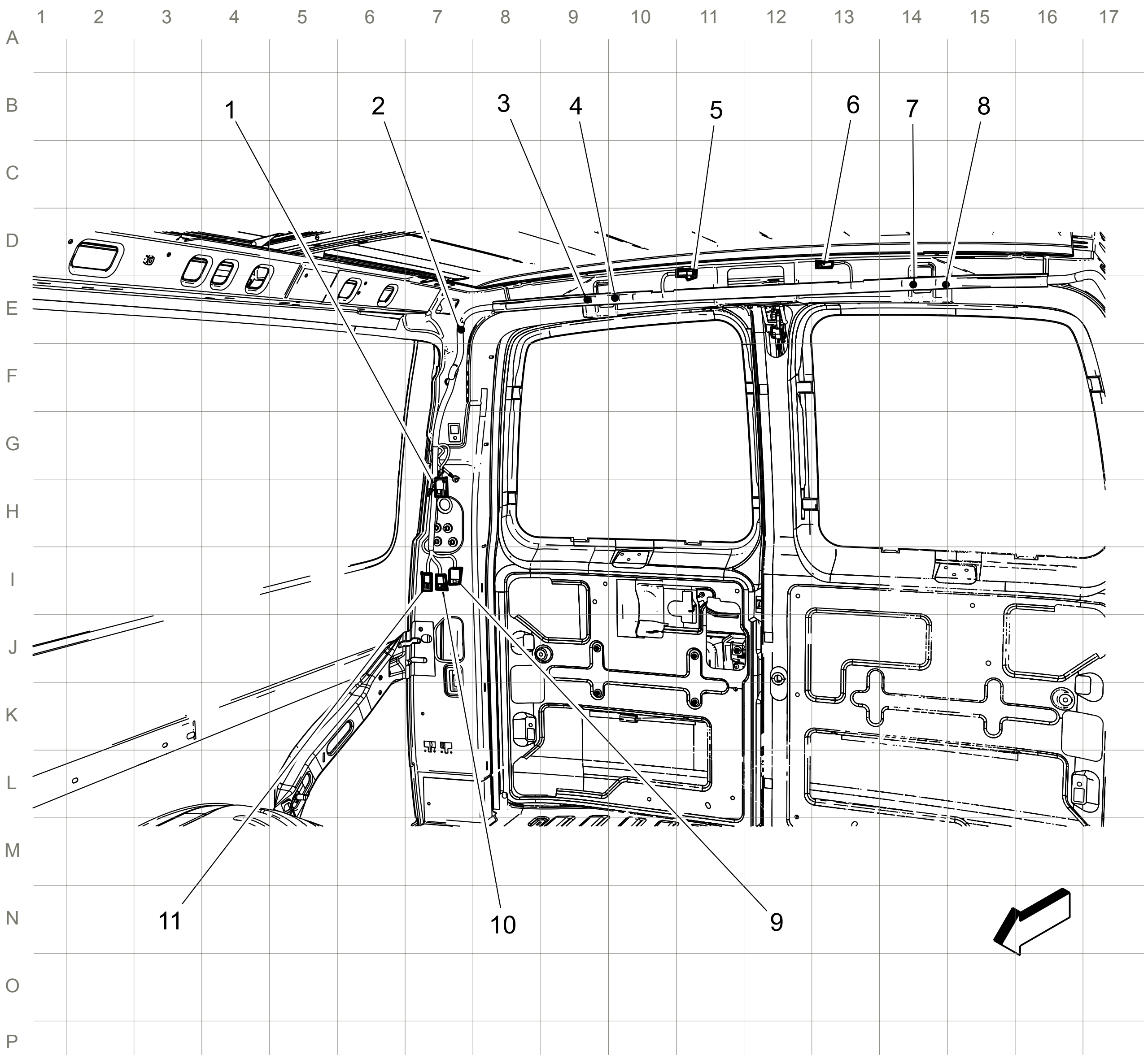
Items

1. J410
2. X401
3. X407 (C36 with C69)
4. X222 (YF2 or YF7)
5. X320 (YF2 or YF7)
6. X409 (C36 with C69)
7. X411

Body Harness Routing - Left Rear (Passenger or Cargo)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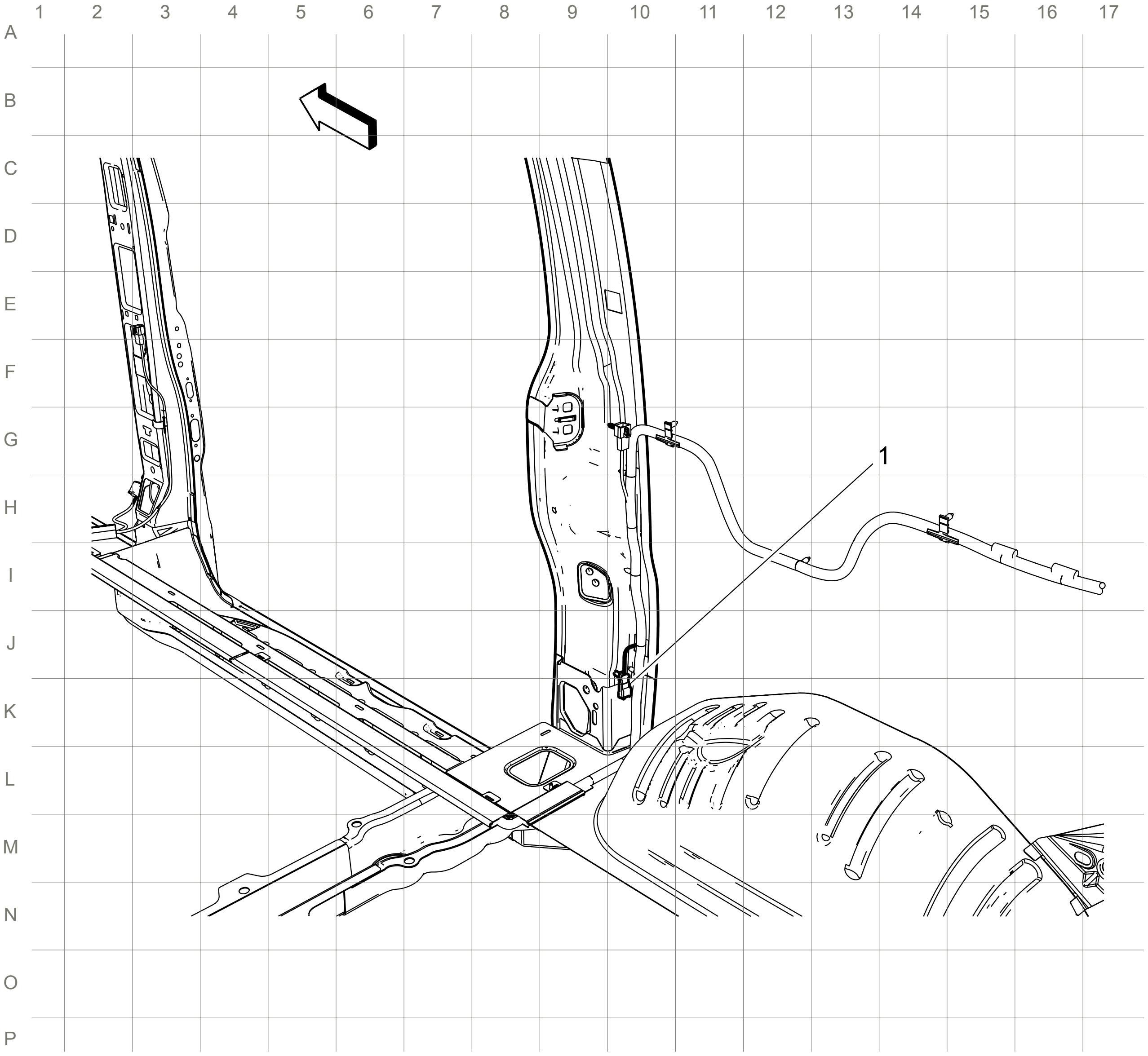
Items

1. X402
2. J403
3. J451
4. J450
5. X320 (YF2 or YF7)
6. X419
7. J452
8. J453
9. X412
10. X400
11. X403 (UVC)

11. X403 (UVC)

Body Harness Routing - Right C-Pillar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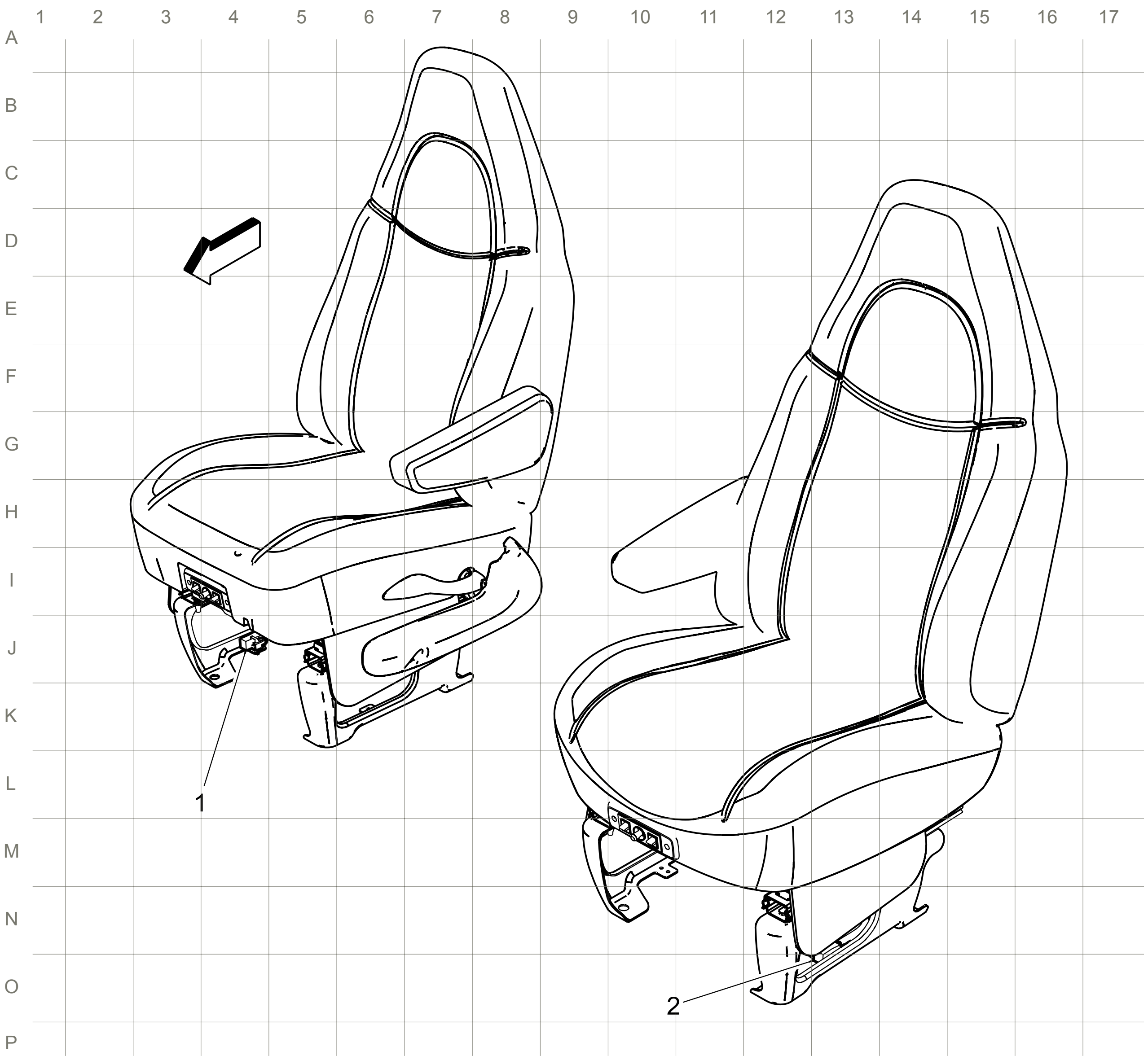
Items

1. X324 (ASF)

Driver and Front Passenger Seats Harness Routing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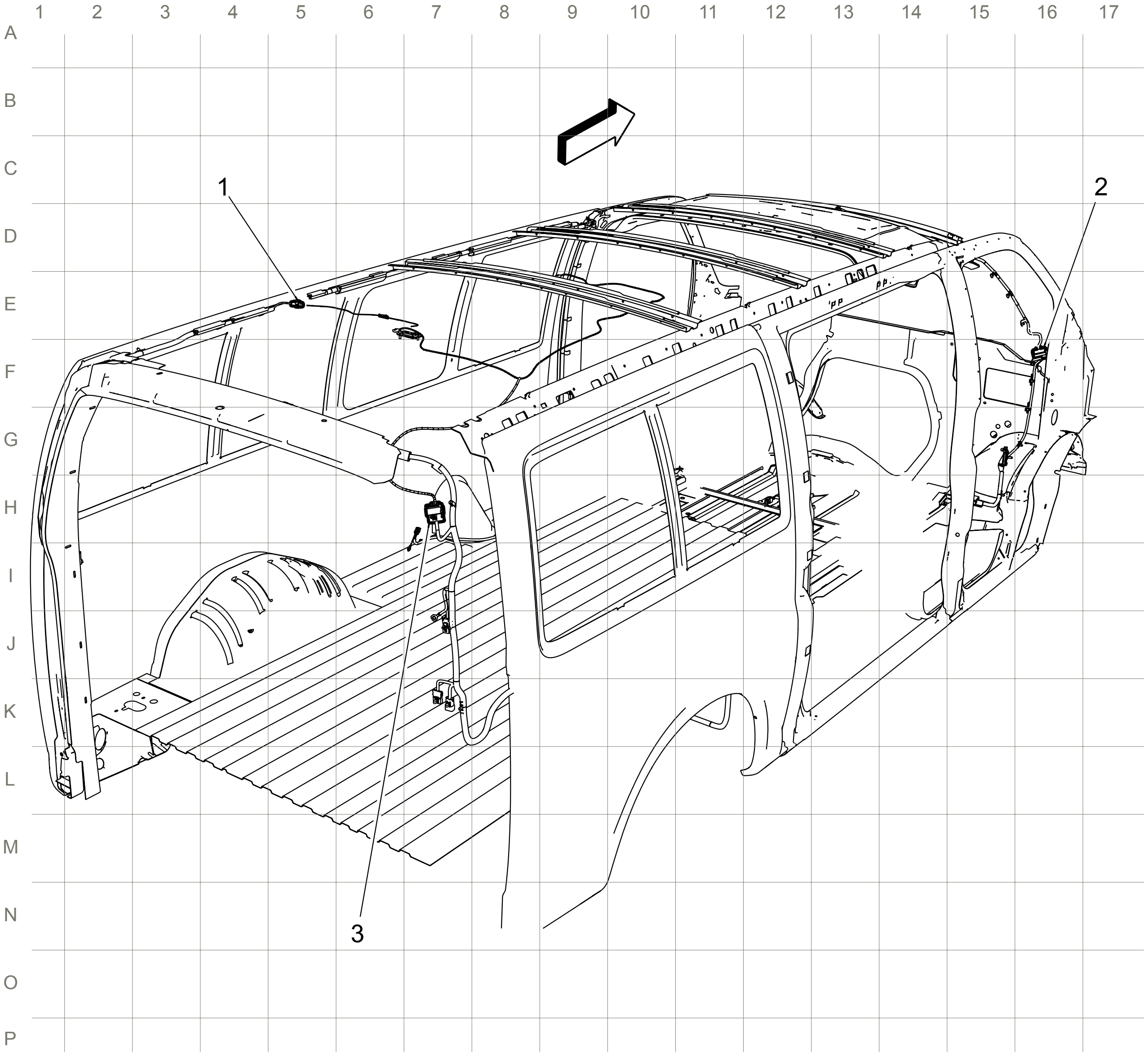
Items

1. X306
2. X307

Front and Rear Headliner Harness Routing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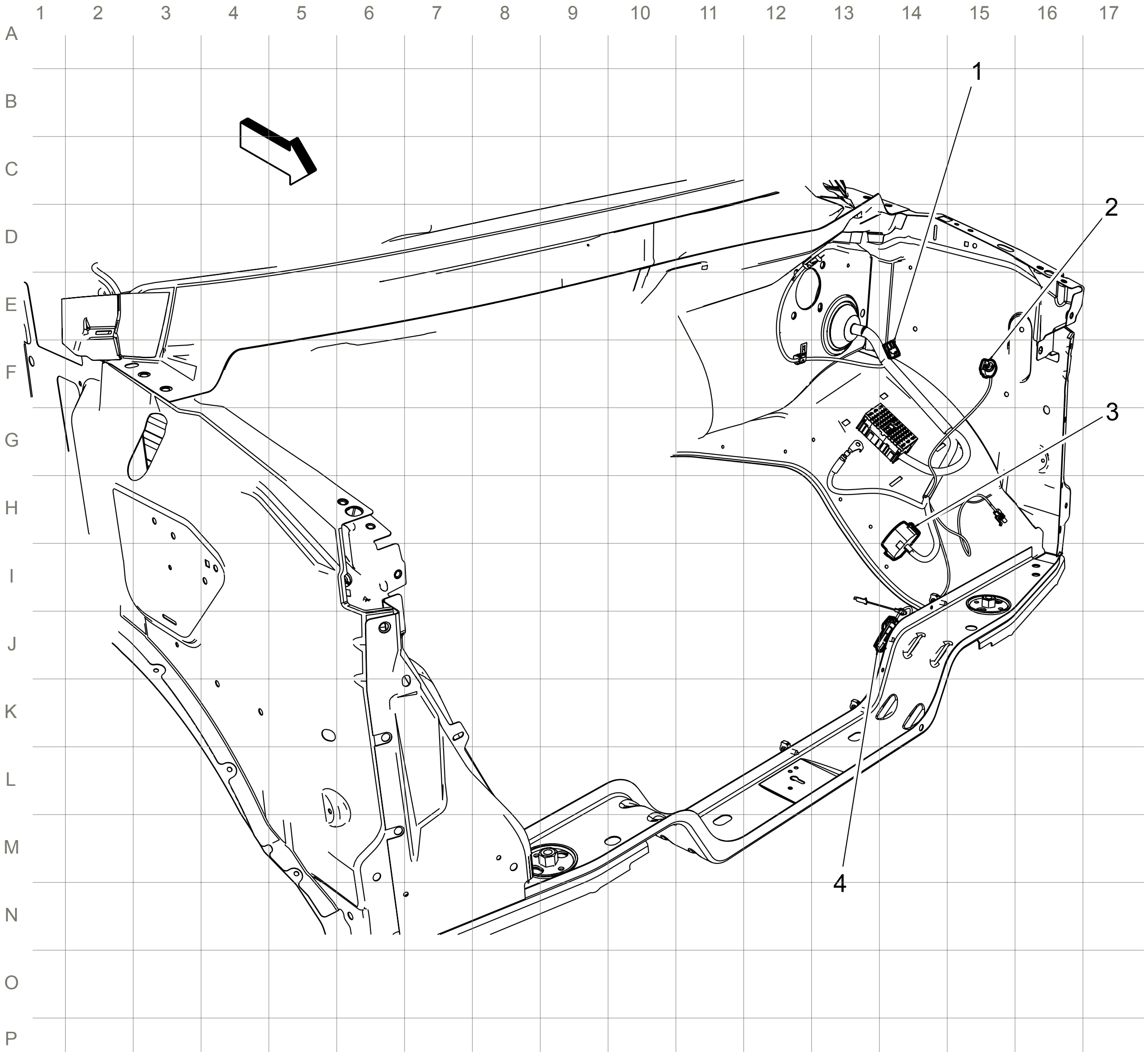
Items

1. X417 (Cargo without YF7)
2. X205
3. X420

Instrument Panel Harness Routing - Front Engine Compartment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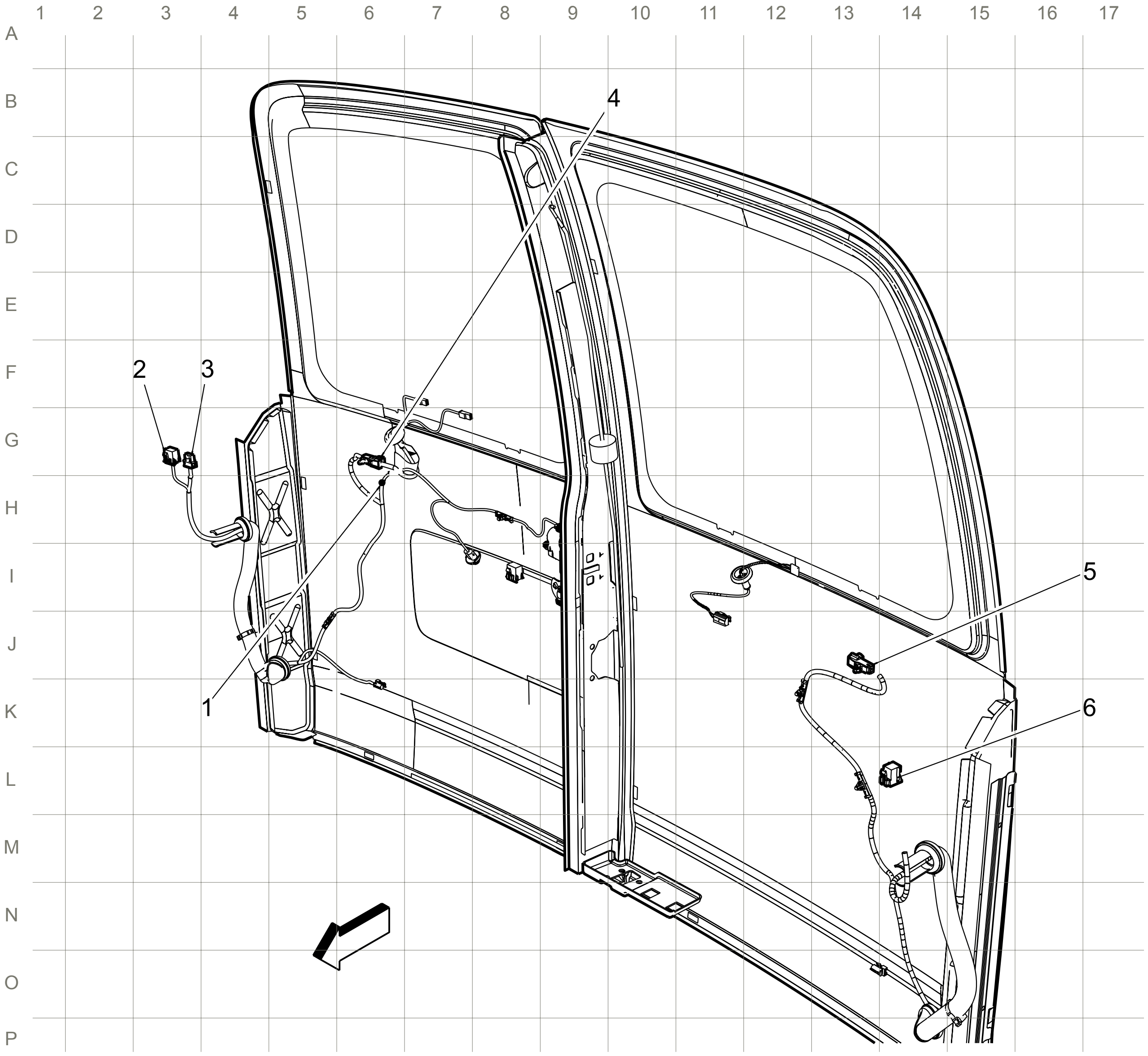
Items

1. X141 (UJ1)
2. X150 (UFA)
3. X100
4. X104

Rear Cargo Doors Harness Routing (Passenger or Cargo)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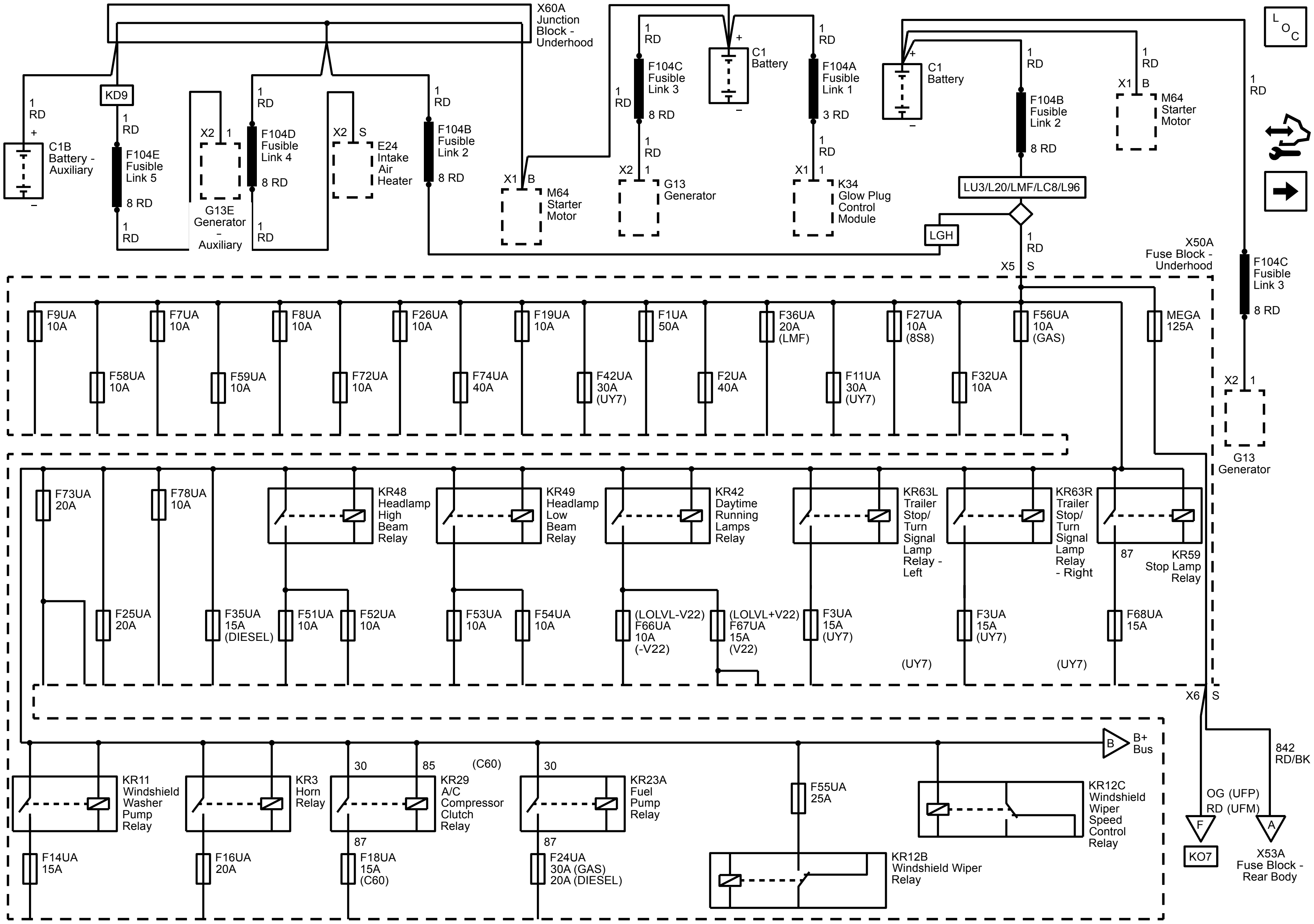
Items

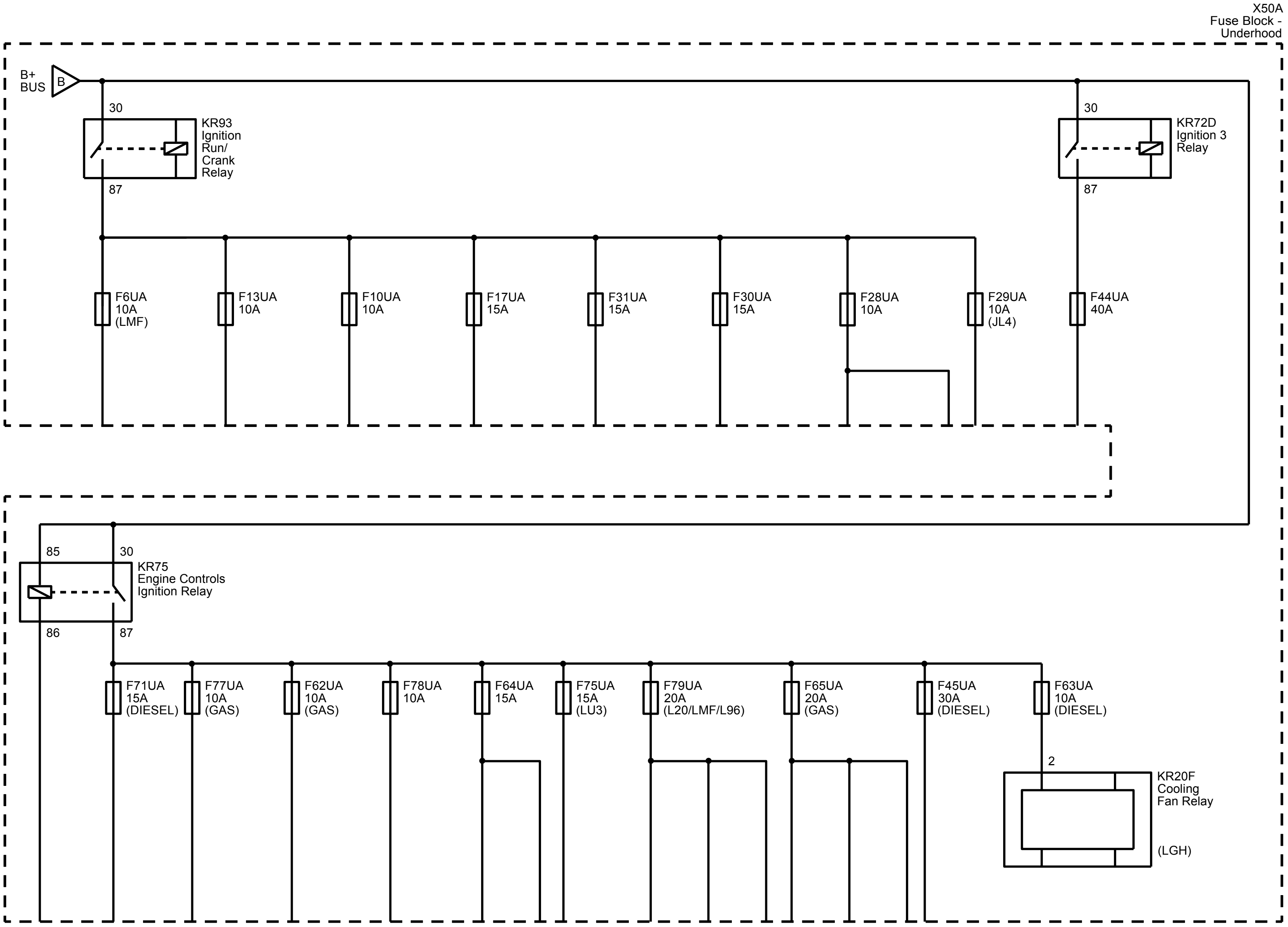
1. J902
2. X400
3. X412
4. X902 (C49 with A12)
5. X901 (C49 with A12)
6. X411

Power Distribution Schematics

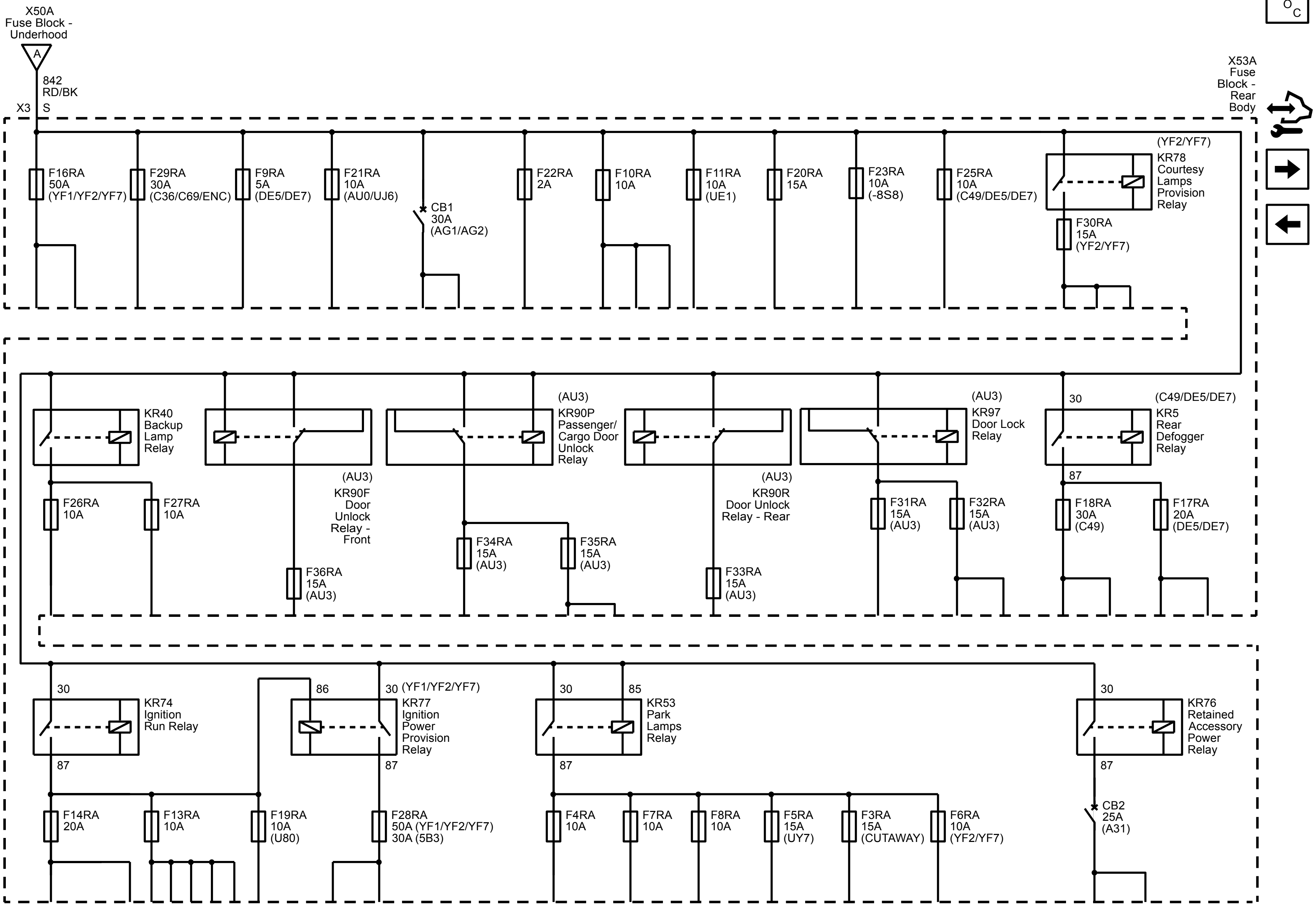
B+ Bus - Underhood Fuse Block (1 of 2)


X60A Junction Block - Underhood
KD9
1 RD
C1B Battery - Auxiliary
F104E Fusible Link 5
8 RD
1 RD
X2 1
G13E Generator - Auxiliary
F104D Fusible Link 4
8 RD
X2 S
E24 Intake Air Heater
F104B Fusible Link 2
8 RD
X1 B
M64 Starter Motor
F104C Fusible Link 3
8 RD
C1 Battery
X2 1
G13 Generator
F104A Fusible Link 1
3 RD
X1 1
K34 Glow Plug Control Module
C1 Battery
F104B Fusible Link 2
8 RD
X1 B
M64 Starter Motor
LU3/L20/LMF/LC8/L96
LGH
X5 S
X50A Fuse Block - Underhood
F104C Fusible Link 3
8 RD
X2 1
G13 Generator
L O C
F9UA 10A
F58UA 10A
F7UA 10A
F59UA 10A
F8UA 10A
F72UA 10A
F26UA 10A
F74UA 40A
F19UA 10A
F42UA 30A (UY7)
F1UA 50A
F2UA 40A
F36UA 20A (LMF)
F11UA 30A (UY7)
F27UA 10A (8S8)
F32UA 10A
F56UA 10A (GAS)
MEGA 125A
F73UA 20A
F78UA 10A
F25UA 20A
F35UA 15A (DIESEL)
KR48 Headlamp High Beam Relay
F51UA 10A
F52UA 10A
KR49 Headlamp Low Beam Relay
F53UA 10A
F54UA 10A
KR42 Daytime Running Lamps Relay
(LOLVL-V22) F66UA 10A (-V22)
(LOLVL+V22) F67UA 15A (V22)
KR63L Trailer Stop/ Turn Signal Lamp Relay - Left
F3UA 15A (UY7)
(UY7)
KR63R Trailer Stop/ Turn Signal Lamp Relay - Right
F3UA 15A (UY7)
(UY7)
87
KR59 Stop Lamp Relay
F68UA 15A
X6 S
B B+ Bus
842 RD/BK
OG (UFP)
RD (UFM)
F
KO7
A
X53A Fuse Block - Rear Body
KR11 Windshield Washer Pump Relay
F14UA 15A
KR3 Horn Relay
F16UA 20A
30 85 (C60)
KR29 A/C Compressor Clutch Relay
87
F18UA 15A (C60)
30
KR23A Fuel Pump Relay
87
F24UA 30A (GAS) 20A (DIESEL)
F55UA 25A
KR12B Windshield Wiper Relay
KR12C Windshield Wiper Speed Control Relay
+
−

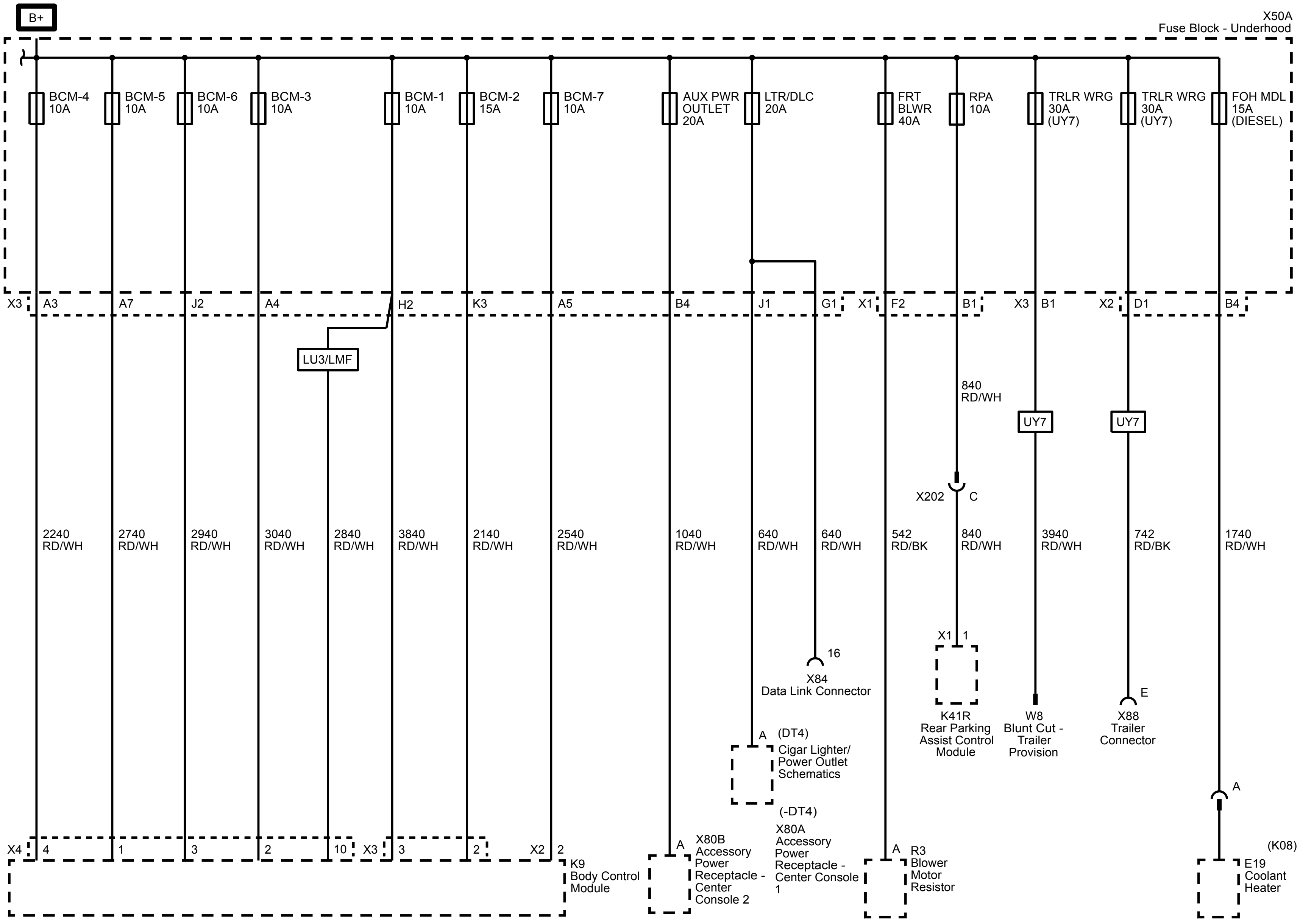
B+ Bus - Underhood Fuse Block (2 of 2)


X50A
Fuse Block -
Underhood
B+
BUS
B
30
KR93
Ignition
Run/
Crank
Relay
87
30
KR72D
Ignition 3
Relay
87
F6UA
10A
(LMF)
F13UA
10A
F10UA
10A
F17UA
15A
F31UA
15A
F30UA
15A
F28UA
10A
F29UA
10A
(JL4)
F44UA
40A
85
30
KR75
Engine Controls
Ignition Relay
86
87
F71UA
15A
(DIESEL)
F77UA
10A
(GAS)
F62UA
10A
(GAS)
F78UA
10A
F64UA
15A
F75UA
15A
(LU3)
F79UA
20A
(L20/LMF/L96)
F65UA
20A
(GAS)
F45UA
30A
(DIESEL)
F63UA
10A
(DIESEL)
2
KR20F
Cooling
Fan Relay
(LGH)

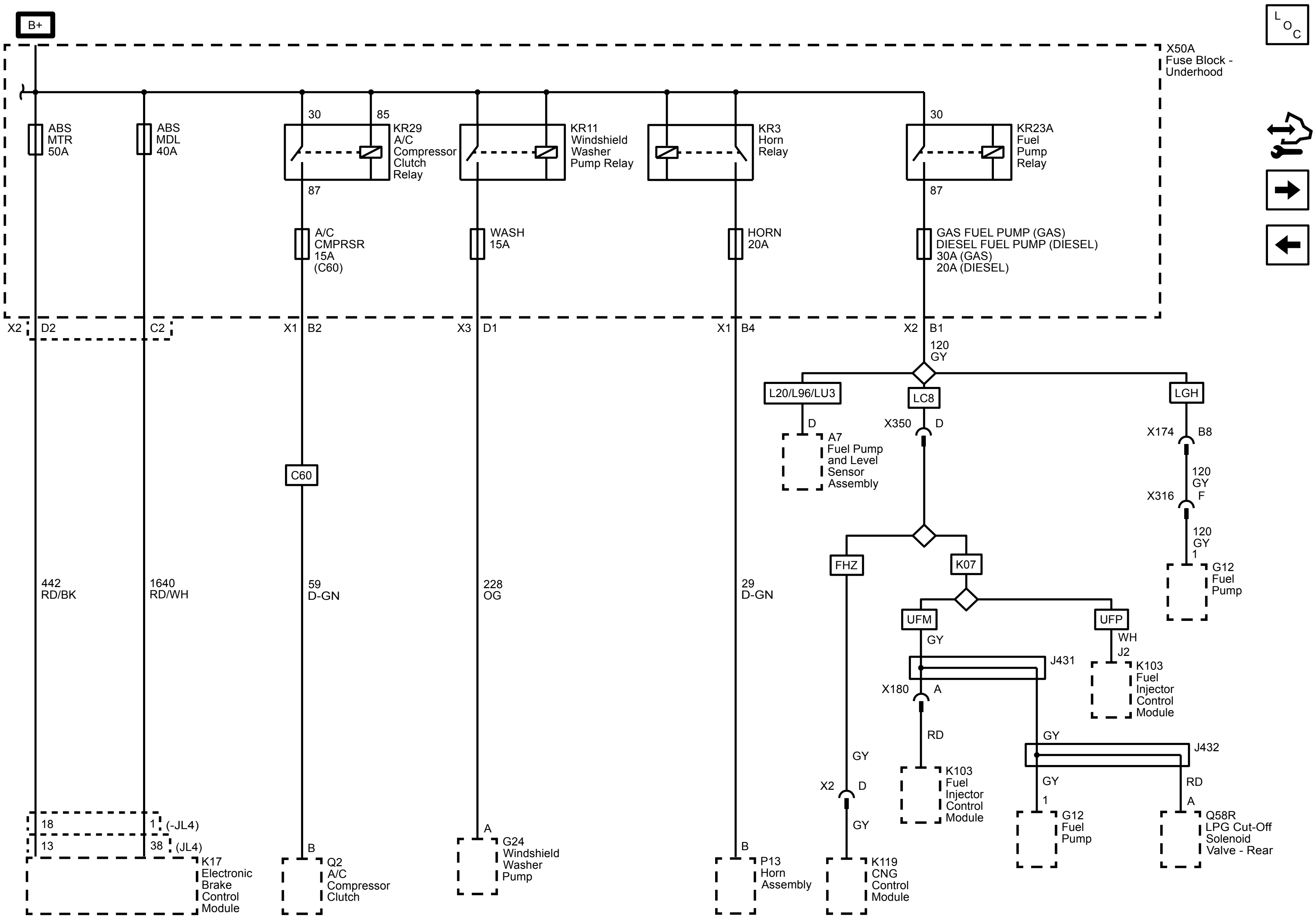
B+ Bus - Body Fuse Block


X50A
Fuse Block -
Underhood
A
842
RD/BK
X3
S
X53A
Fuse
Block -
Rear
Body
L O C
F16RA
50A
(YF1/YF2/YF7)
F29RA
30A
(C36/C69/ENC)
F9RA
5A
(DE5/DE7)
F21RA
10A
(AU0/UJ6)
CB1
30A
(AG1/AG2)
F22RA
2A
F10RA
10A
F11RA
10A
(UE1)
F20RA
15A
F23RA
10A
(-8S8)
F25RA
10A
(C49/DE5/DE7)
(YF2/YF7)
KR78
Courtesy
Lamps
Provision
Relay
F30RA
15A
(YF2/YF7)
KR40
Backup
Lamp
Relay
F26RA
10A
F27RA
10A
(AU3)
KR90F
Door
Unlock
Relay -
Front
F36RA
15A
(AU3)
(AU3)
KR90P
Passenger/
Cargo Door
Unlock
Relay
F34RA
15A
(AU3)
F35RA
15A
(AU3)
(AU3)
KR90R
Door Unlock
Relay - Rear
F33RA
15A
(AU3)
(AU3)
KR97
Door Lock
Relay
F31RA
15A
(AU3)
F32RA
15A
(AU3)
30
(C49/DE5/DE7)
KR5
Rear
Defogger
Relay
87
F18RA
30A
(C49)
F17RA
20A
(DE5/DE7)
30
KR74
Ignition
Run Relay
87
F14RA
20A
F13RA
10A
F19RA
10A
(U80)
86
30
(YF1/YF2/YF7)
KR77
Ignition
Power
Provision
Relay
87
F28RA
50A (YF1/YF2/YF7)
30A (5B3)
30
85
KR53
Park
Lamps
Relay
87
F4RA
10A
F7RA
10A
F8RA
10A
F5RA
15A
(UY7)
F3RA
15A
(CUTAWAY)
F6RA
10A
(YF2/YF7)
30
KR76
Retained
Accessory
Power
Relay
87
CB2
25A
(A31)

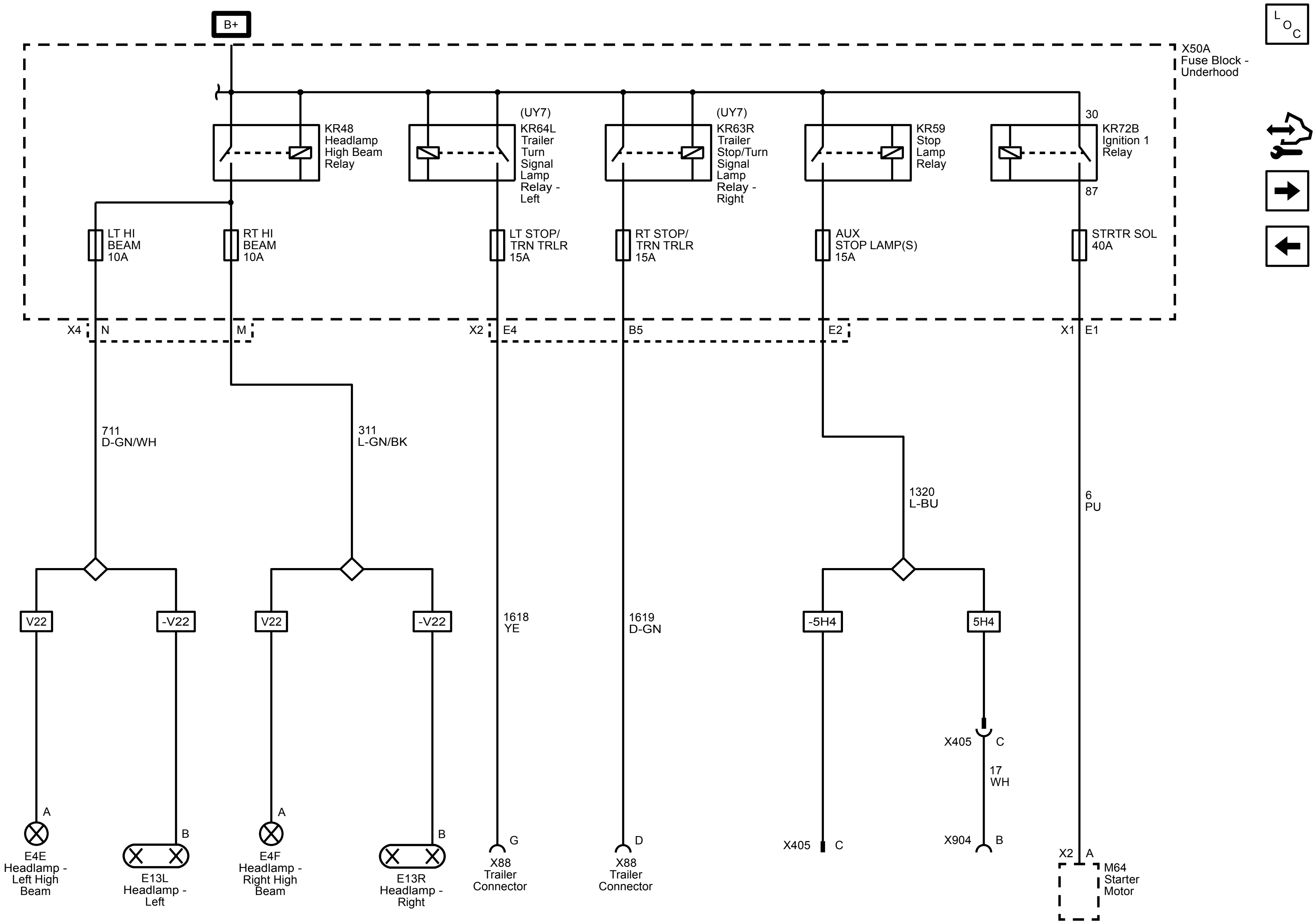
AUX PWR OUTLET, BCM-1, BCM-2, BCM-3, BCM-4, BCM-5, BCM-6, BCM-7, FOH MDL, FRT BLWR, LTR/DLC, and TRLR WRG Fuses


B+
X50A
Fuse Block - Underhood
BCM-4 10A
BCM-5 10A
BCM-6 10A
BCM-3 10A
BCM-1 10A
BCM-2 15A
BCM-7 10A
AUX PWR OUTLET 20A
LTR/DLC 20A
FRT BLWR 40A
RPA 10A
TRLR WRG 30A (UY7)
TRLR WRG 30A (UY7)
FOH MDL 15A (DIESEL)
X3 A3
A7
J2
A4
H2
K3
A5
B4
J1
G1
X1 F2
B1
X3 B1
X2 D1
B4
LU3/LMF
840 RD/WH
UY7
UY7
X202 C
2240 RD/WH
2740 RD/WH
2940 RD/WH
3040 RD/WH
2840 RD/WH
3840 RD/WH
2140 RD/WH
2540 RD/WH
1040 RD/WH
640 RD/WH
640 RD/WH
542 RD/BK
840 RD/WH
3940 RD/WH
742 RD/BK
1740 RD/WH
16
X84
Data Link Connector
X1 1
K41R
Rear Parking Assist Control Module
W8
Blunt Cut - Trailer Provision
E
X88
Trailer Connector
A (DT4)
Cigar Lighter/ Power Outlet Schematics
(-DT4)
X80A
Accessory Power Receptacle - Center Console 1
A
X80B
Accessory Power Receptacle - Center Console 2
A
R3
Blower Motor Resistor
A
(K08)
E19
Coolant Heater
X4 4
1
3
2
10
X3 3
2
X2 2
K9
Body Control Module

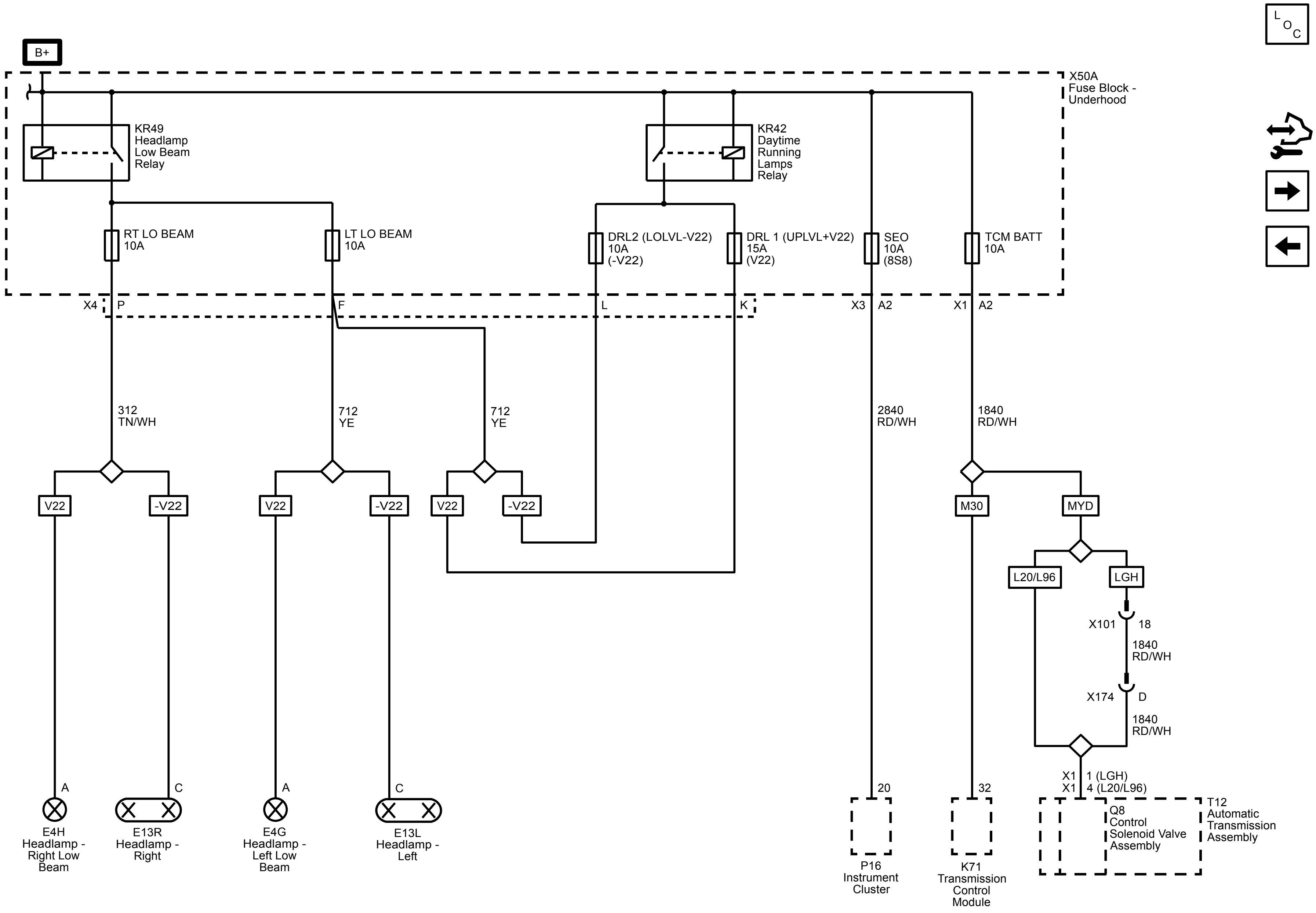
A/C CMPRSR, ABS MDL, ABS MTR, DIESEL FUEL PUMP, GAS FUEL PUMP, HORN, and WASH Fuses


B+
X50A Fuse Block - Underhood
ABS MTR 50A
ABS MDL 40A
30
85
KR29 A/C Compressor Clutch Relay
87
KR11 Windshield Washer Pump Relay
KR3 Horn Relay
30
KR23A Fuel Pump Relay
87
A/C CMPRSR 15A (C60)
WASH 15A
HORN 20A
GAS FUEL PUMP (GAS)
DIESEL FUEL PUMP (DIESEL)
30A (GAS)
20A (DIESEL)
X2
D2
C2
X1
B2
X3
D1
X1
B4
X2
B1
120 GY
L20/L96/LU3
LC8
LGH
D
A7 Fuel Pump and Level Sensor Assembly
X350
D
X174
B8
120 GY
X316
F
120 GY
1
G12 Fuel Pump
C60
FHZ
K07
UFM
UFP
GY
WH
J2
K103 Fuel Injector Control Module
J431
X180
A
RD
GY
J432
K103 Fuel Injector Control Module
GY
1
G12 Fuel Pump
RD
A
Q58R LPG Cut-Off Solenoid Valve - Rear
442 RD/BK
1640 RD/WH
59 D-GN
228 OG
29 D-GN
GY
X2
D
GY
K119 CNG Control Module
18
1
(-JL4)
13
38
(JL4)
K17 Electronic Brake Control Module
B
Q2 A/C Compressor Clutch
A
G24 Windshield Washer Pump
B
P13 Horn Assembly
L O C

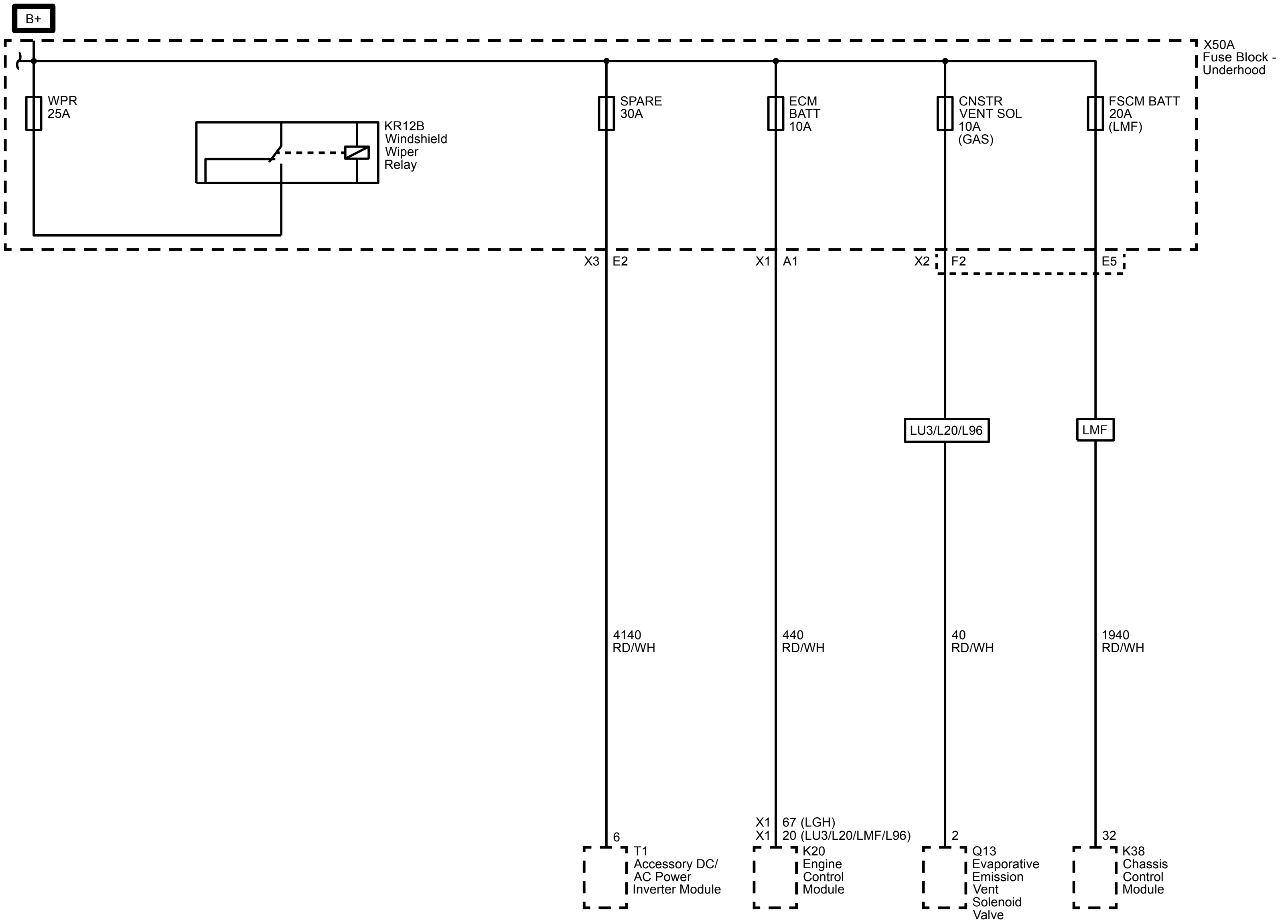
AUX STOP LAMP(S), LT HI BEAM, LT STOP/TRN TRLR, RT HI BEAM, RT STOP/TRN TRLR, and STRTR SOL Fuses


B+
X50A Fuse Block - Underhood
KR48 Headlamp High Beam Relay
(UY7) KR64L Trailer Turn Signal Lamp Relay - Left
(UY7) KR63R Trailer Stop/Turn Signal Lamp Relay - Right
KR59 Stop Lamp Relay
30
KR72B Ignition 1 Relay
87
LT HI BEAM 10A
RT HI BEAM 10A
LT STOP/ TRN TRLR 15A
RT STOP/ TRN TRLR 15A
AUX STOP LAMP(S) 15A
STRTR SOL 40A
X4
N
M
X2
E4
B5
E2
X1
E1
711 D-GN/WH
311 L-GN/BK
1320 L-BU
6 PU
V22
-V22
V22
-V22
1618 YE
1619 D-GN
-5H4
5H4
X405
C
17 WH
A
E4E Headlamp - Left High Beam
B
E13L Headlamp - Left
A
E4F Headlamp - Right High Beam
B
E13R Headlamp - Right
G
X88 Trailer Connector
D
X88 Trailer Connector
X405
C
X904
B
X2
A
M64 Starter Motor
L O C

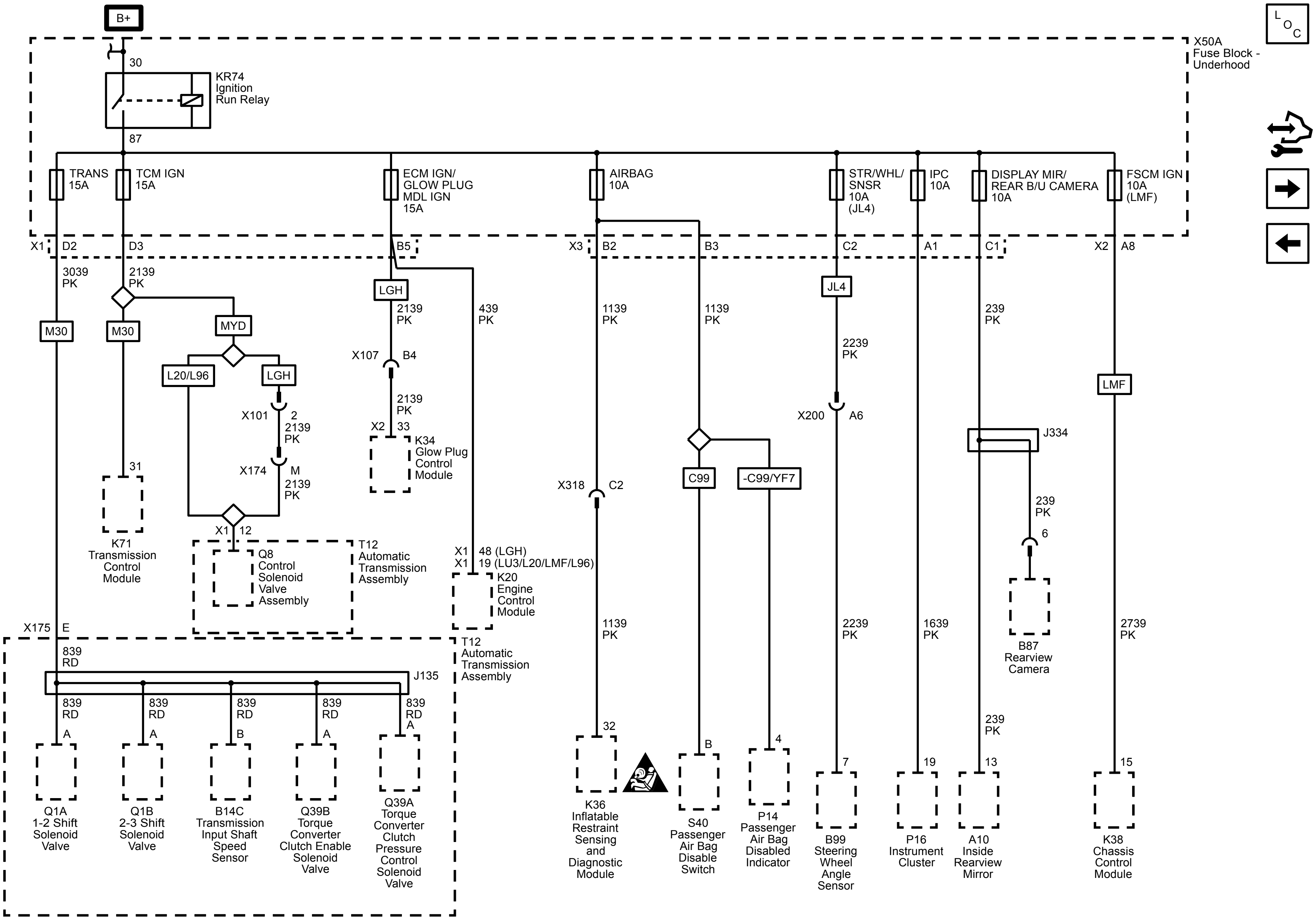
DRL 1, (UPLVL+V22), DRL 2 (LOLVL-V22), LT LO BEAM, RT LO BEAM, SEO, and TCM BATT Fuses


L O C
B+
X50A Fuse Block - Underhood
KR49 Headlamp Low Beam Relay
KR42 Daytime Running Lamps Relay
RT LO BEAM 10A
LT LO BEAM 10A
DRL2 (LOLVL-V22) 10A (-V22)
DRL 1 (UPLVL+V22) 15A (V22)
SEO 10A (8S8)
TCM BATT 10A
X4
P
F
L
K
X3
A2
X1
A2
312 TN/WH
712 YE
712 YE
2840 RD/WH
1840 RD/WH
V22
-V22
V22
-V22
V22
-V22
M30
MYD
L20/L96
LGH
X101
18
1840 RD/WH
X174
D
1840 RD/WH
X1 1 (LGH)
X1 4 (L20/L96)
A
C
A
C
20
32
E4H Headlamp - Right Low Beam
E13R Headlamp - Right
E4G Headlamp - Left Low Beam
E13L Headlamp - Left
P16 Instrument Cluster
K71 Transmission Control Module
Q8 Control Solenoid Valve Assembly
T12 Automatic Transmission Assembly

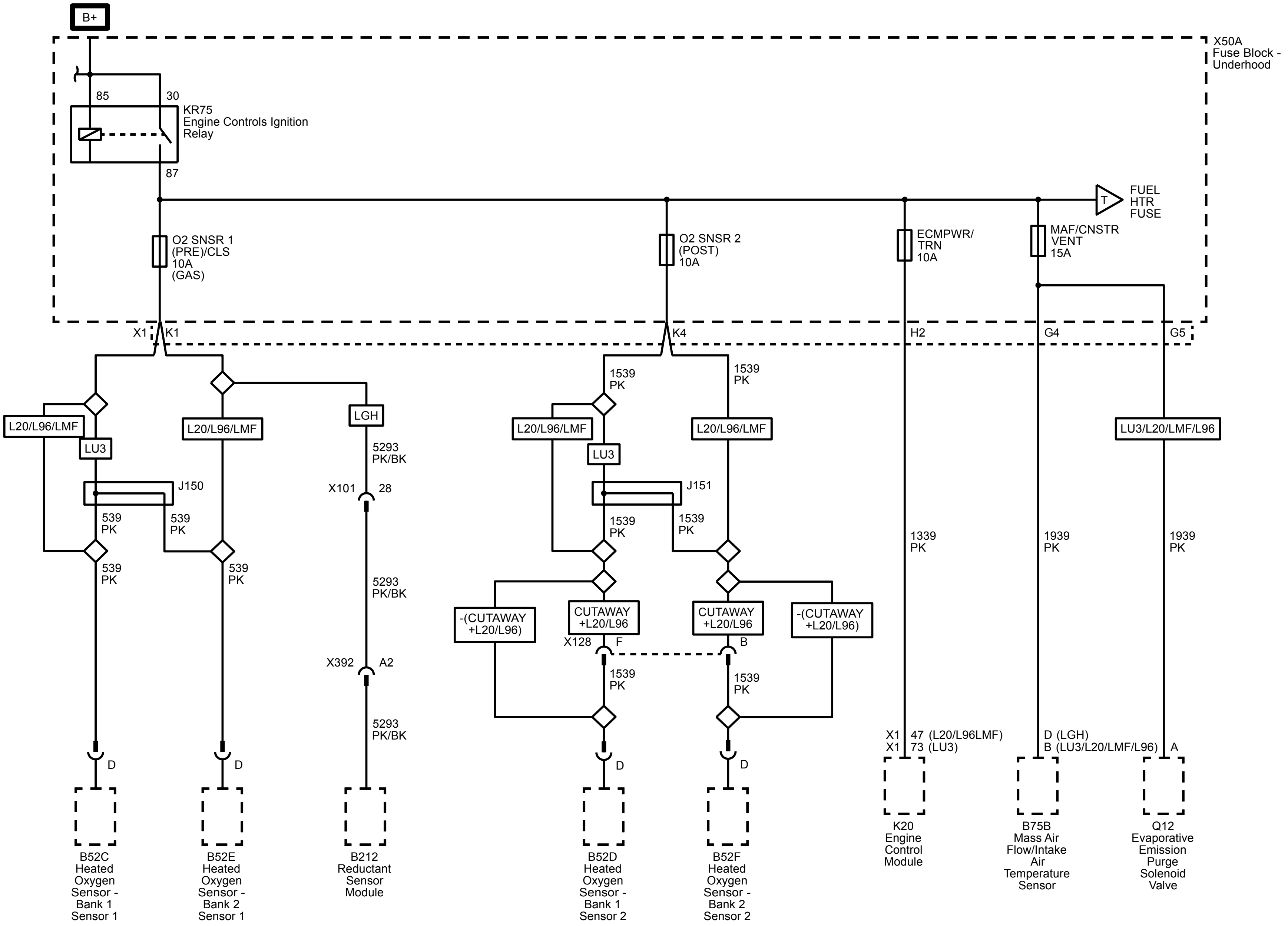
CNSTR VENT SOL, ECM BATT, FCSM BATT, and WPR Fuses


B+
X50A
Fuse Block -
Underhood
WPR
25A
KR12B
Windshield
Wiper
Relay
SPARE
30A
ECM
BATT
10A
CNSTR
VENT SOL
10A
(GAS)
FSCM BATT
20A
(LMF)
X3 E2
X1 A1
X2 F2
E5
LU3/L20/L96
LMF
4140
RD/WH
440
RD/WH
40
RD/WH
1940
RD/WH
6
T1
Accessory DC/
AC Power
Inverter Module
X1 67 (LGH)
X1 20 (LU3/L20/LMF/L96)
K20
Engine
Control
Module
2
Q13
Evaporative
Emission
Vent
Solenoid
Valve
32
K38
Chassis
Control
Module

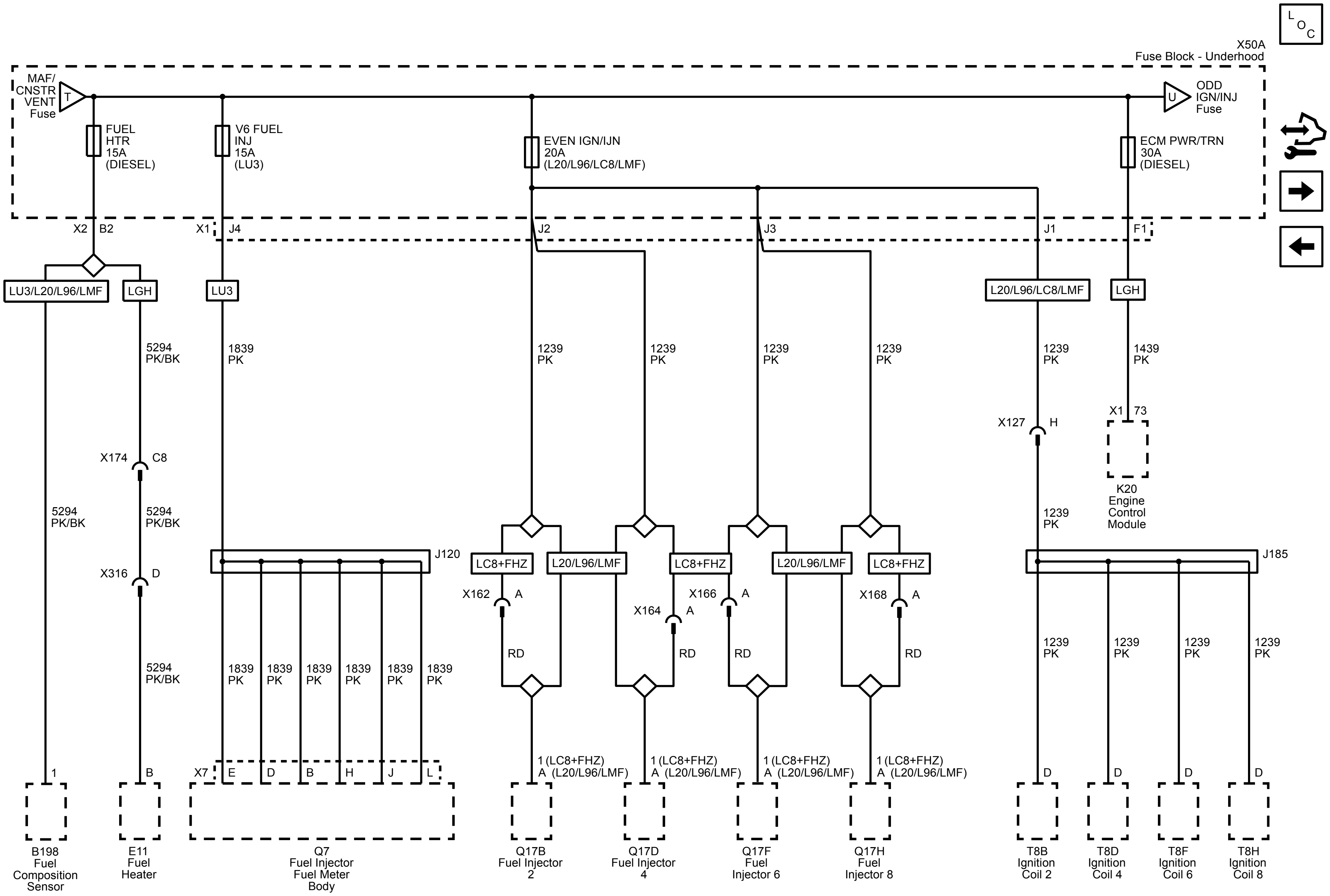
AIRBAG, BRK SW, ECM IGN/GLOW PLUG MDL IGN, FCSM IGN, IPC, STR/WHL/SNSR, TCM IGN, and TRANS Fuses


B+
30
KR74
Ignition
Run Relay
87
X50A
Fuse Block -
Underhood
TRANS
15A
TCM IGN
15A
ECM IGN/
GLOW PLUG
MDL IGN
15A
AIRBAG
10A
STR/WHL/
SNSR
10A
(JL4)
IPC
10A
DISPLAY MIR/
REAR B/U CAMERA
10A
FSCM IGN
10A
(LMF)
X1
D2
D3
B5
X3
B2
B3
C2
A1
C1
X2
A8
3039
PK
2139
PK
M30
M30
MYD
L20/L96
LGH
X101
2
2139
PK
X174
M
2139
PK
X1
12
31
K71
Transmission
Control
Module
Q8
Control
Solenoid
Valve
Assembly
T12
Automatic
Transmission
Assembly
LGH
2139
PK
439
PK
X107
B4
2139
PK
X2
33
K34
Glow Plug
Control
Module
X1
48 (LGH)
X1
19 (LU3/L20/LMF/L96)
K20
Engine
Control
Module
T12
Automatic
Transmission
Assembly
X175
E
839
RD
J135
839
RD
A
839
RD
A
839
RD
B
839
RD
A
839
RD
A
Q1A
1-2 Shift
Solenoid
Valve
Q1B
2-3 Shift
Solenoid
Valve
B14C
Transmission
Input Shaft
Speed
Sensor
Q39B
Torque
Converter
Clutch Enable
Solenoid
Valve
Q39A
Torque
Converter
Clutch
Pressure
Control
Solenoid
Valve
1139
PK
1139
PK
X318
C2
1139
PK
32
K36
Inflatable
Restraint
Sensing
and
Diagnostic
Module
C99
-C99/YF7
B
S40
Passenger
Air Bag
Disable
Switch
4
P14
Passenger
Air Bag
Disabled
Indicator
JL4
2239
PK
X200
A6
2239
PK
7
B99
Steering
Wheel
Angle
Sensor
1639
PK
19
P16
Instrument
Cluster
239
PK
J334
239
PK
6
B87
Rearview
Camera
239
PK
13
A10
Inside
Rearview
Mirror
LMF
2739
PK
15
K38
Chassis
Control
Module
L
O
C

ECM PWR/TRN, MAF/CNSTR VENT, O2 SNSR 1 (PRE)/CLS, and O2 SNSR 2 (POST) Fuses

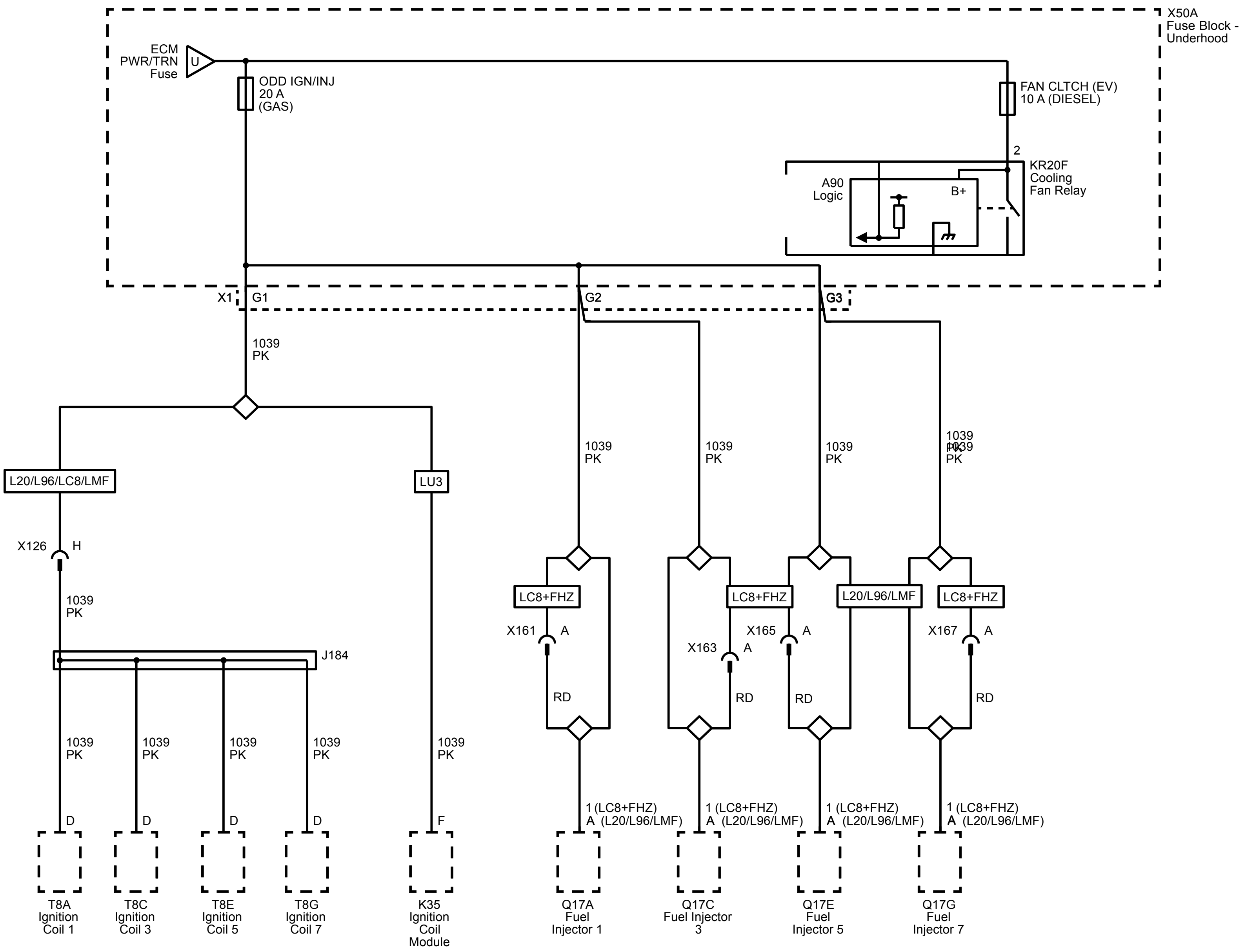

B+
X50A
Fuse Block - Underhood
85
30
KR75
Engine Controls Ignition Relay
87
T
FUEL HTR FUSE
O2 SNSR 1 (PRE)/CLS 10A (GAS)
O2 SNSR 2 (POST) 10A
ECMPWR/ TRN 10A
MAF/CNSTR VENT 15A
X1
K1
K4
H2
G4
G5
L20/L96/LMF
LU3
L20/L96/LMF
LGH
J150
539 PK
539 PK
539 PK
539 PK
5293 PK/BK
X101
28
5293 PK/BK
X392
A2
5293 PK/BK
1539 PK
1539 PK
L20/L96/LMF
L20/L96/LMF
LU3
J151
1539 PK
1539 PK
-(CUTAWAY +L20/L96)
CUTAWAY +L20/L96
CUTAWAY +L20/L96
-(CUTAWAY +L20/L96)
X128
F
B
1539 PK
1539 PK
LU3/L20/LMF/L96
1339 PK
1939 PK
1939 PK
X1 47 (L20/L96LMF)
X1 73 (LU3)
D (LGH)
B (LU3/L20/LMF/L96)
A
D
D
D
D
B52C Heated Oxygen Sensor - Bank 1 Sensor 1
B52E Heated Oxygen Sensor - Bank 2 Sensor 1
B212 Reductant Sensor Module
B52D Heated Oxygen Sensor - Bank 1 Sensor 2
B52F Heated Oxygen Sensor - Bank 2 Sensor 2
K20 Engine Control Module
B75B Mass Air Flow/Intake Air Temperature Sensor
Q12 Evaporative Emission Purge Solenoid Valve

ECM PWR/TRN, EVEN IGN/IJN, FUEL HTR, and V6 FUEL INJ Fuses



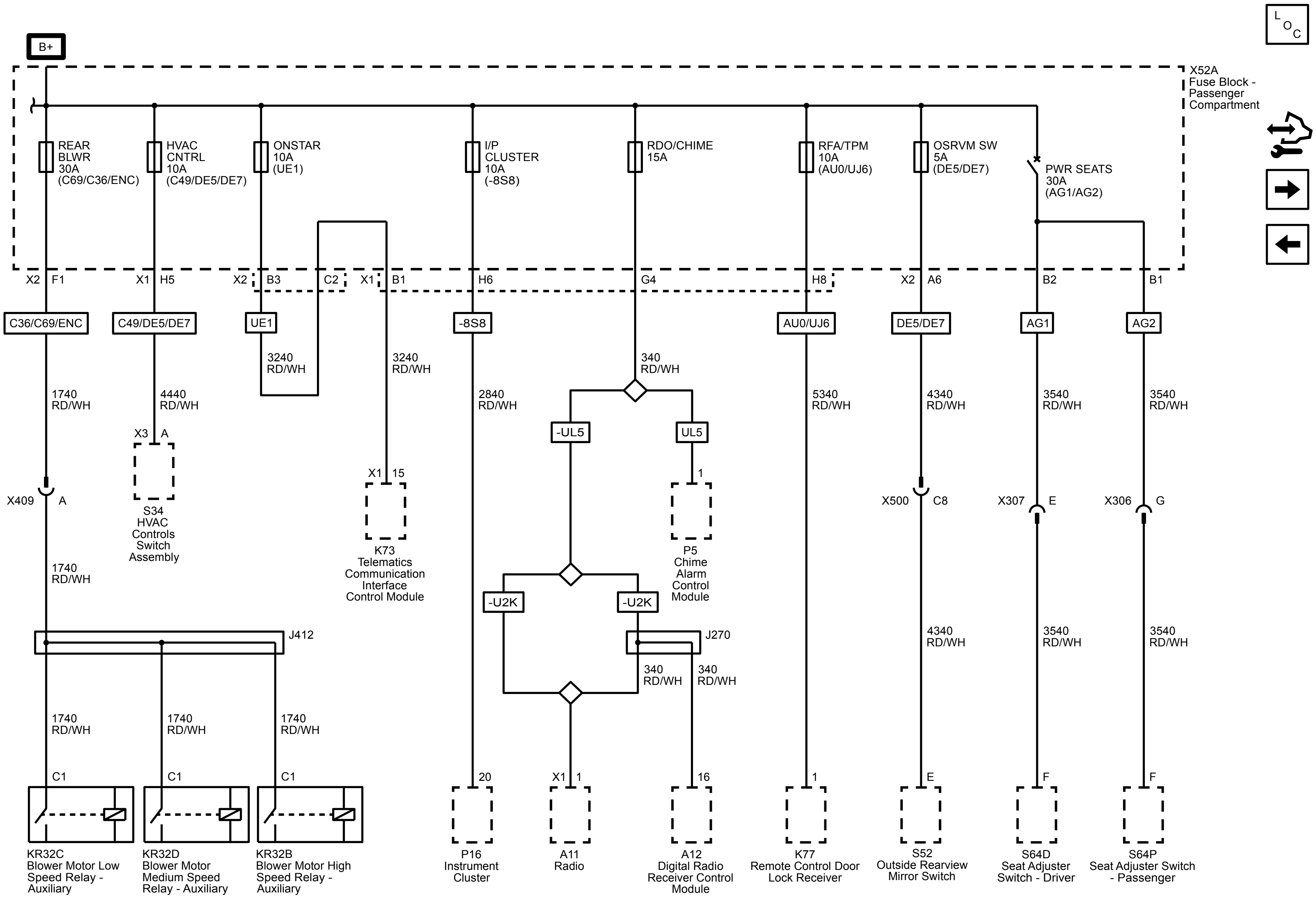
X50A
Fuse Block - Underhood
MAF/ CNSTR VENT Fuse
T
U
ODD IGN/INJ Fuse
FUEL HTR 15A (DIESEL)
V6 FUEL INJ 15A (LU3)
EVEN IGN/IJN 20A (L20/L96/LC8/LMF)
ECM PWR/TRN 30A (DIESEL)
X2 B2
X1 J4
J2
J3
J1
F1
LU3/L20/L96/LMF
LGH
LU3
L20/L96/LC8/LMF
LGH
5294 PK/BK
1839 PK
1239 PK
1439 PK
X174 C8
X316 D
X127 H
X1 73
K20 Engine Control Module
J120
J185
LC8+FHZ
L20/L96/LMF
X162 A
X164 A
X166 A
X168 A
RD
1 (LC8+FHZ) A (L20/L96/LMF)
X7 E D B H J L
1
B
D
B198 Fuel Composition Sensor
E11 Fuel Heater
Q7 Fuel Injector Fuel Meter Body
Q17B Fuel Injector 2
Q17D Fuel Injector 4
Q17F Fuel Injector 6
Q17H Fuel Injector 8
T8B Ignition Coil 2
T8D Ignition Coil 4
T8F Ignition Coil 6
T8H Ignition Coil 8

FAN CLTCH (EV) and ODD IGN/INJ Fuses


X50A
Fuse Block - Underhood
ECM PWR/TRN Fuse
U
ODD IGN/INJ
20 A
(GAS)
FAN CLTCH (EV)
10 A (DIESEL)
2
KR20F
Cooling
Fan Relay
A90
Logic
B+
X1
G1
G2
G3
1039
PK
L20/L96/LC8/LMF
LU3
X126
H
J184
D
F
LC8+FHZ
L20/L96/LMF
X161
X163
X165
X167
A
RD
1 (LC8+FHZ)
A (L20/L96/LMF)
T8A
Ignition
Coil 1
T8C
Ignition
Coil 3
T8E
Ignition
Coil 5
T8G
Ignition
Coil 7
K35
Ignition
Coil
Module
Q17A
Fuel
Injector 1
Q17C
Fuel Injector
3
Q17E
Fuel
Injector 5
Q17G
Fuel
Injector 7

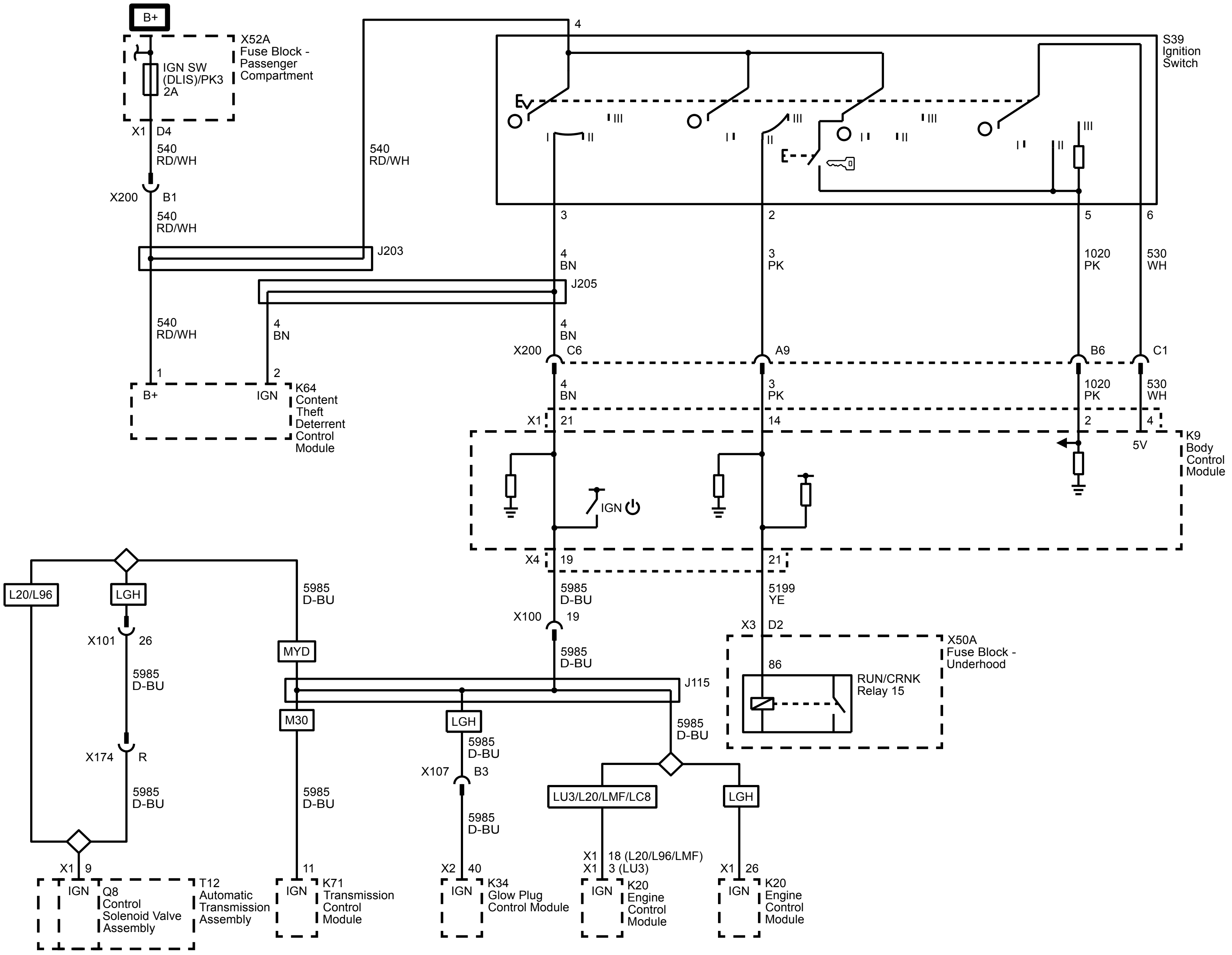
L
O
C

HVAC CNTRL, I/P CLUSTER, ONSTAR, OSRVM SW, RDO/CHIME, REAR BLWR, and RFA/TPM Fuses and PWR SEATS Circuit Breaker

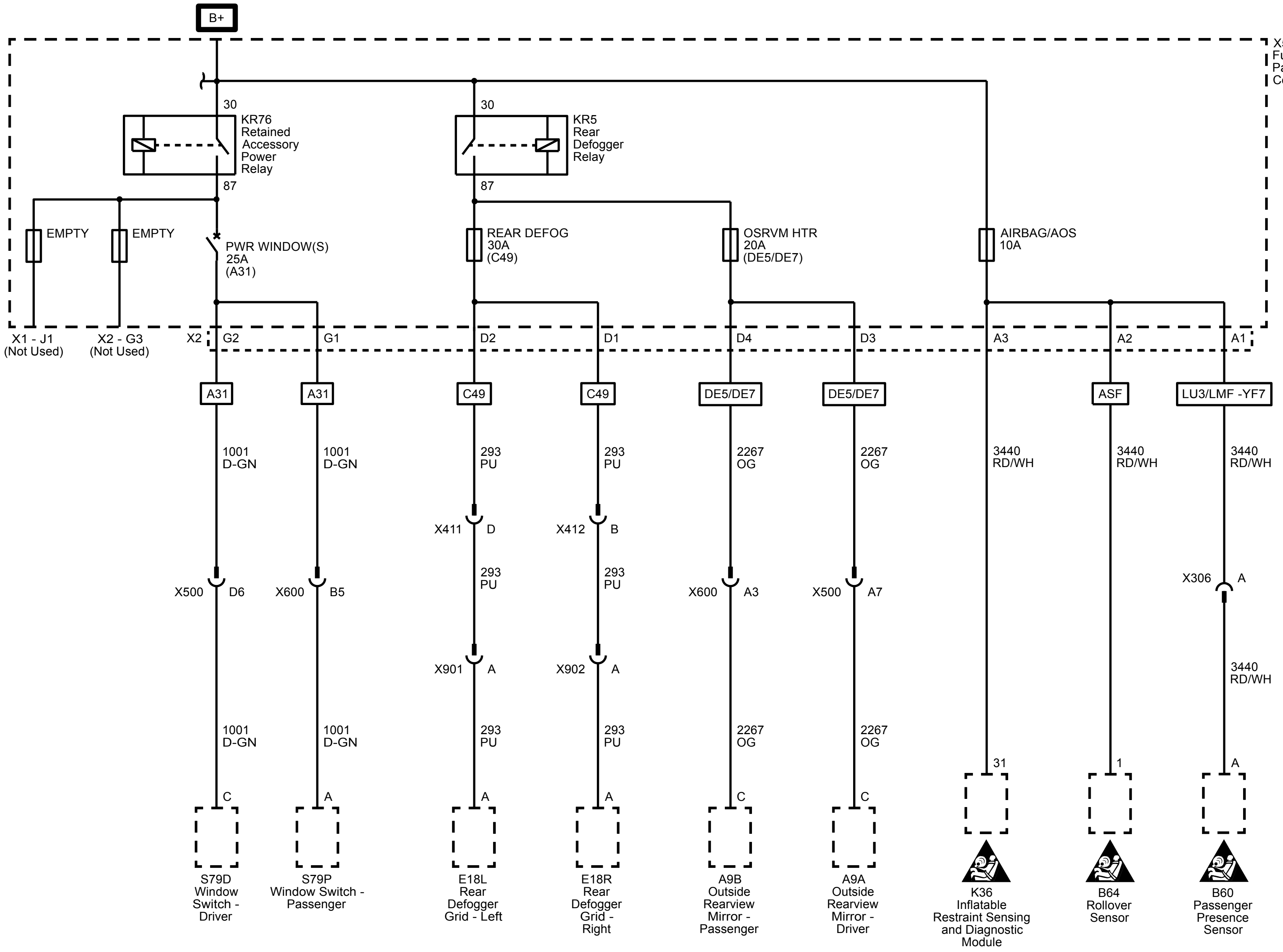


L O C
B+
X52A Fuse Block - Passenger Compartment
REAR BLWR 30A (C69/C36/ENC)
HVAC CNTRL 10A (C49/DE5/DE7)
ONSTAR 10A (UE1)
I/P CLUSTER 10A (-8S8)
RDO/CHIME 15A
RFA/TPM 10A (AU0/UJ6)
OSRVM SW 5A (DE5/DE7)
PWR SEATS 30A (AG1/AG2)
X2 F1
X1 H5
X2 B3
C2
X1 B1
H6
G4
H8
X2 A6
B2
B1
C36/C69/ENC
C49/DE5/DE7
UE1
-8S8
AU0/UJ6
DE5/DE7
AG1
AG2
3240 RD/WH
3240 RD/WH
340 RD/WH
1740 RD/WH
4440 RD/WH
2840 RD/WH
5340 RD/WH
4340 RD/WH
3540 RD/WH
3540 RD/WH
-UL5
UL5
X3 A
S34 HVAC Controls Switch Assembly
X1 15
K73 Telematics Communication Interface Control Module
1
P5 Chime Alarm Control Module
X409 A
X500 C8
X307 E
X306 G
1740 RD/WH
-U2K
-U2K
4340 RD/WH
3540 RD/WH
3540 RD/WH
J412
J270
340 RD/WH
340 RD/WH
1740 RD/WH
1740 RD/WH
1740 RD/WH
C1
C1
C1
20
X1 1
16
1
E
F
F
KR32C Blower Motor Low Speed Relay - Auxiliary
KR32D Blower Motor Medium Speed Relay - Auxiliary
KR32B Blower Motor High Speed Relay - Auxiliary
P16 Instrument Cluster
A11 Radio
A12 Digital Radio Receiver Control Module
K77 Remote Control Door Lock Receiver
S52 Outside Rearview Mirror Switch
S64D Seat Adjuster Switch - Driver
S64P Seat Adjuster Switch - Passenger

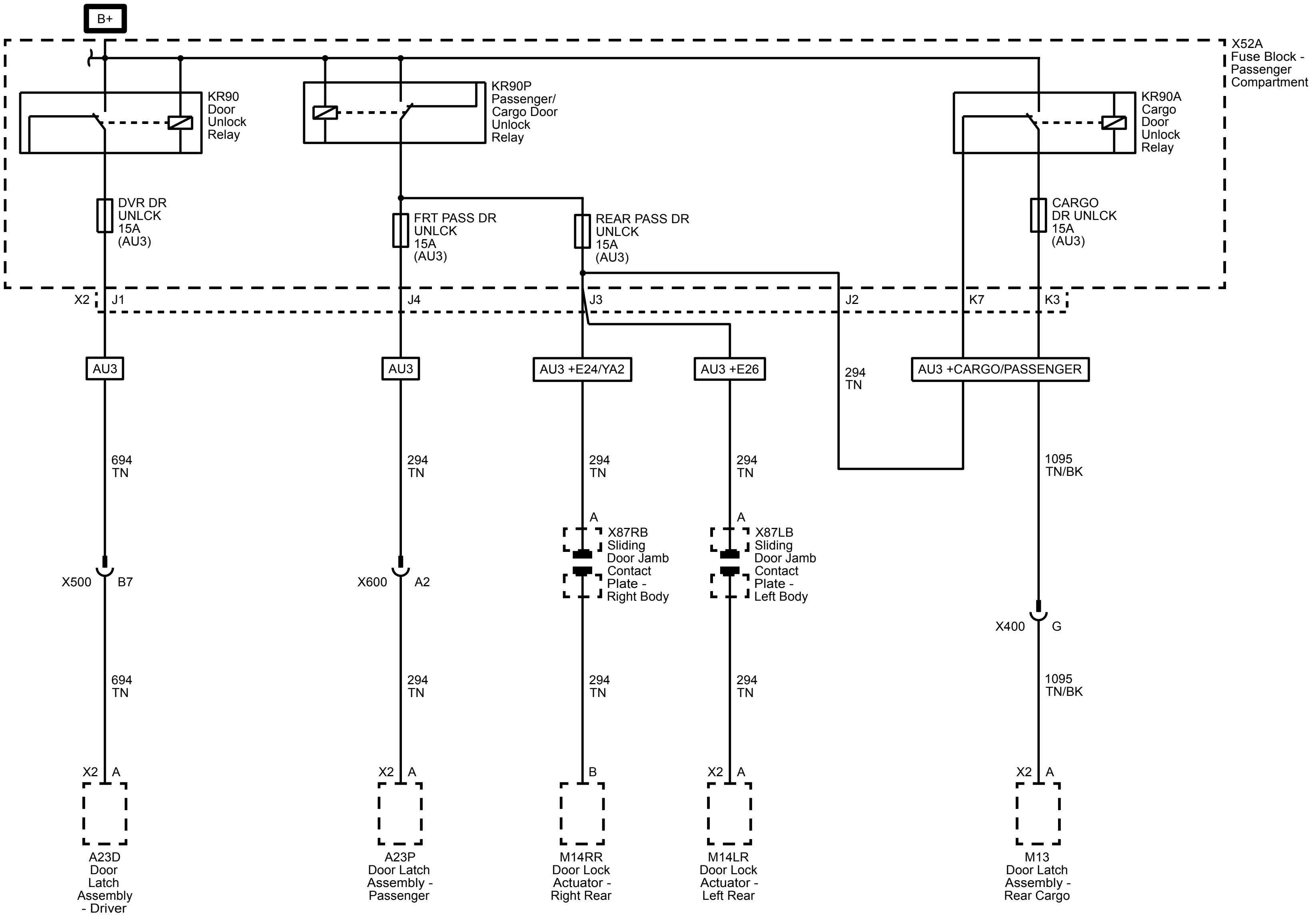
Ignition Switch and IGN SW (DLIS)/PK3 Fuse


B+
X52A
Fuse Block - Passenger Compartment
IGN SW (DLIS)/PK3 2A
X1 D4
540 RD/WH
X200 B1
540 RD/WH
J203
540 RD/WH
J205
4 BN
540 RD/WH
1 B+
2 IGN
K64 Content Theft Deterrent Control Module
4
S39 Ignition Switch
I
II
III
3
2
5
6
4 BN
3 PK
1020 PK
530 WH
X200 C6
A9
B6
C1
4 BN
3 PK
1020 PK
530 WH
X1 21
14
2
4
5V
K9 Body Control Module
IGN
X4 19
21
5985 D-BU
5199 YE
X100 19
5985 D-BU
X3 D2
X50A Fuse Block - Underhood
86
RUN/CRNK Relay 15
J115
L20/L96
LGH
X101 26
5985 D-BU
MYD
5985 D-BU
M30
LGH
5985 D-BU
5985 D-BU
X174 R
5985 D-BU
X107 B3
5985 D-BU
LU3/L20/LMF/LC8
LGH
5985 D-BU
5985 D-BU
X1 9
IGN
Q8 Control Solenoid Valve Assembly
T12 Automatic Transmission Assembly
11
IGN
K71 Transmission Control Module
X2 40
IGN
K34 Glow Plug Control Module
X1 18 (L20/L96/LMF)
X1 3 (LU3)
IGN
K20 Engine Control Module
X1 26
IGN
K20 Engine Control Module

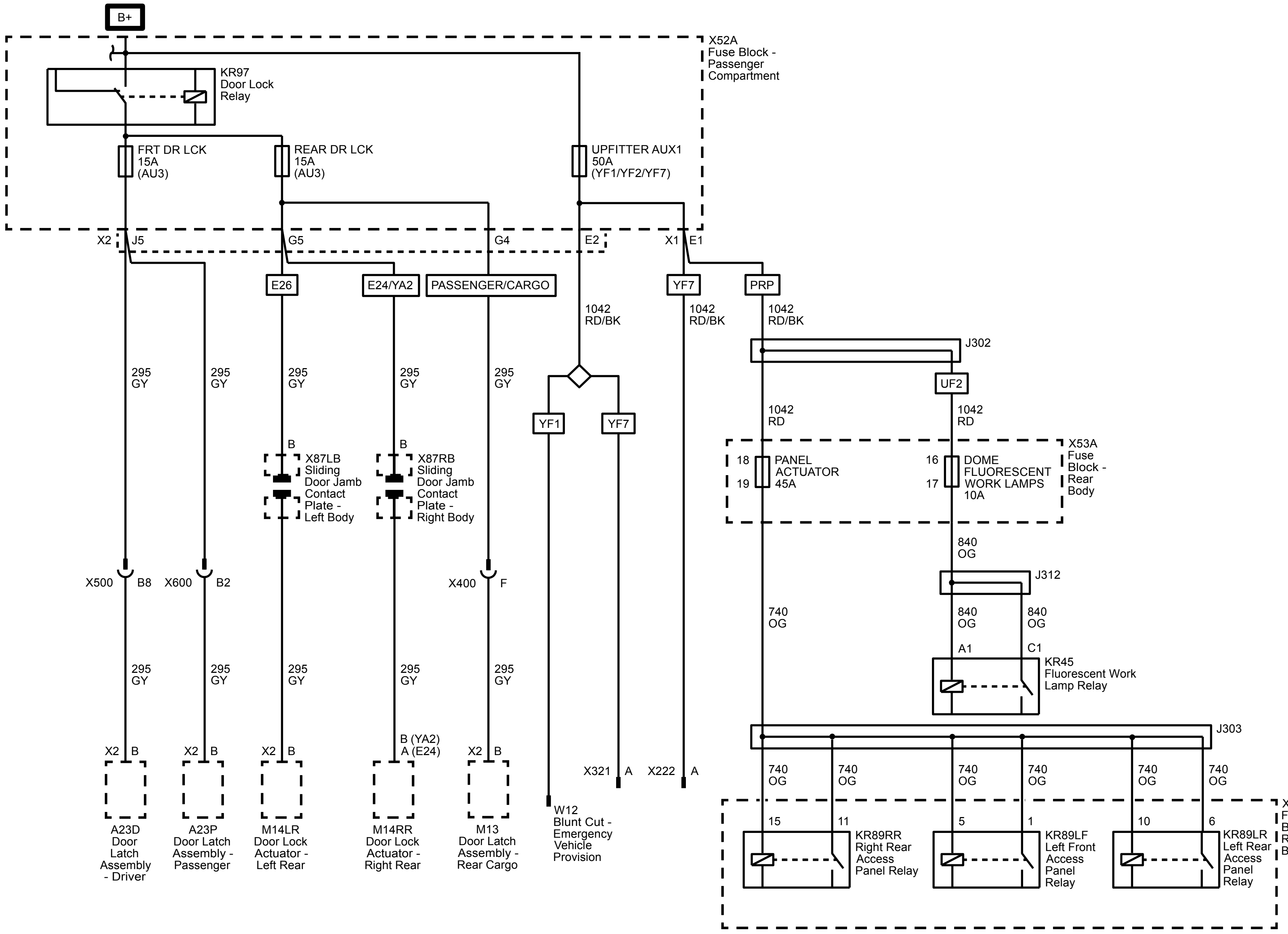
AIRBAG/AOS, OSRVM HTR, and REAR DEFOG Fuses and PWR WINDOW(S) Circuit Breaker


B+
X52A
Fuse Block - Passenger Compartment
30
KR76
Retained Accessory Power Relay
87
30
KR5
Rear Defogger Relay
87
EMPTY
EMPTY
PWR WINDOW(S)
25A
(A31)
REAR DEFOG
30A
(C49)
OSRVM HTR
20A
(DE5/DE7)
AIRBAG/AOS
10A
X1 - J1
(Not Used)
X2 - G3
(Not Used)
X2
G2
G1
D2
D1
D4
D3
A3
A2
A1
A31
A31
C49
C49
DE5/DE7
DE5/DE7
ASF
LU3/LMF -YF7
1001
D-GN
1001
D-GN
293
PU
293
PU
2267
OG
2267
OG
3440
RD/WH
3440
RD/WH
3440
RD/WH
X411
D
X412
B
293
PU
293
PU
X500
D6
X600
B5
X600
A3
X500
A7
X306
A
X901
A
X902
A
3440
RD/WH
1001
D-GN
1001
D-GN
293
PU
293
PU
2267
OG
2267
OG
31
1
A
C
A
A
A
C
C
S79D
Window Switch - Driver
S79P
Window Switch - Passenger
E18L
Rear Defogger Grid - Left
E18R
Rear Defogger Grid - Right
A9B
Outside Rearview Mirror - Passenger
A9A
Outside Rearview Mirror - Driver
K36
Inflatable Restraint Sensing and Diagnostic Module
B64
Rollover Sensor
B60
Passenger Presence Sensor

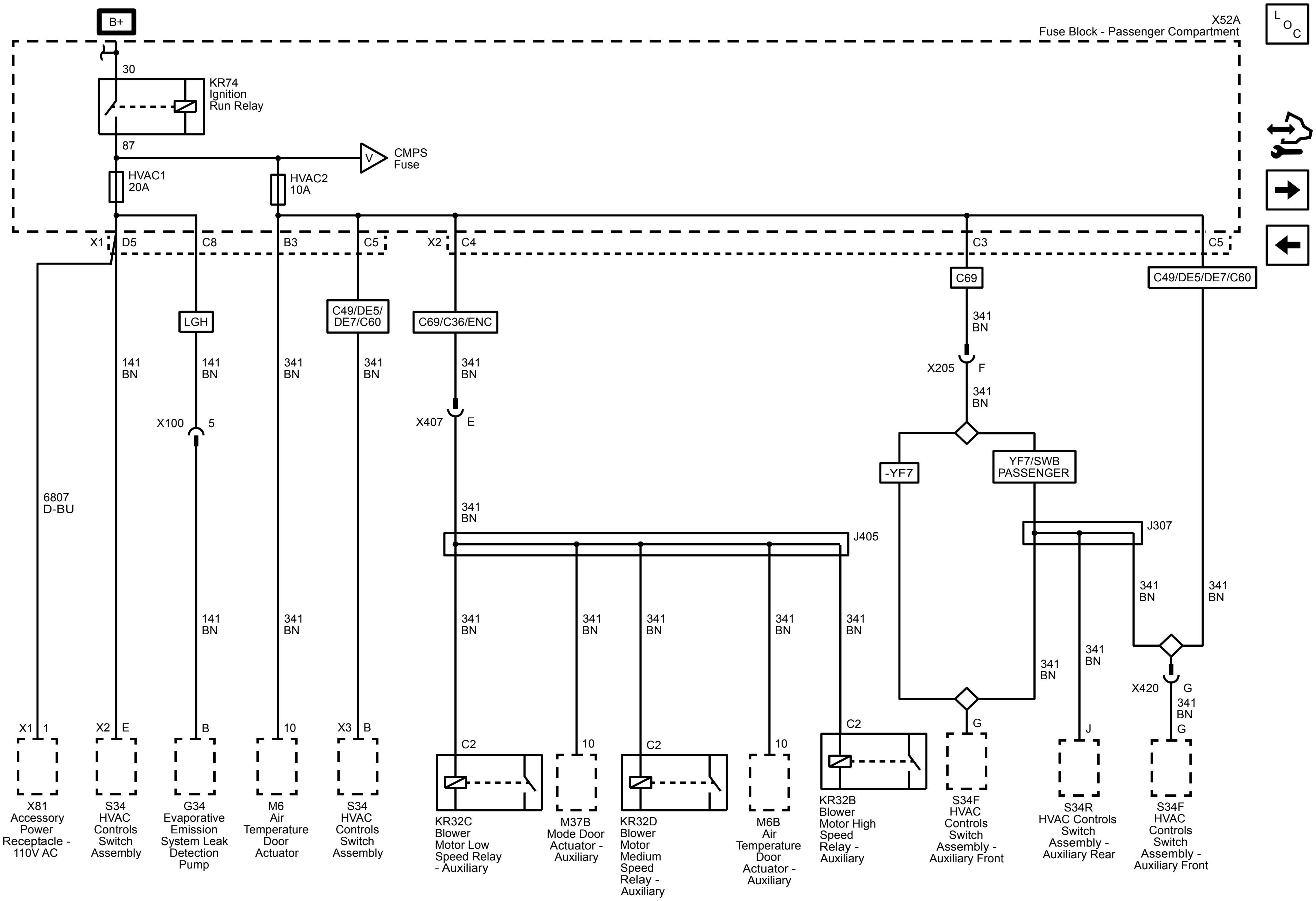
CARGO DR UNLCK, DVR DR UNLCK, FRT PASS DR UNLCK and REAR PASS DR UNLCK Fuses


B+
X52A
Fuse Block - Passenger Compartment
KR90
Door Unlock Relay
KR90P
Passenger/ Cargo Door Unlock Relay
KR90A
Cargo Door Unlock Relay
DVR DR UNLCK
15A
(AU3)
FRT PASS DR UNLCK
15A
(AU3)
REAR PASS DR UNLCK
15A
(AU3)
CARGO DR UNLCK
15A
(AU3)
X2
J1
J4
J3
J2
K7
K3
AU3
AU3
AU3 +E24/YA2
AU3 +E26
AU3 +CARGO/PASSENGER
294
TN
694
TN
294
TN
294
TN
294
TN
1095
TN/BK
X500
B7
X600
A2
A
X87RB
Sliding Door Jamb Contact Plate - Right Body
A
X87LB
Sliding Door Jamb Contact Plate - Left Body
X400
G
694
TN
294
TN
294
TN
294
TN
1095
TN/BK
X2
A
X2
A
B
X2
A
X2
A
A23D
Door Latch Assembly - Driver
A23P
Door Latch Assembly - Passenger
M14RR
Door Lock Actuator - Right Rear
M14LR
Door Lock Actuator - Left Rear
M13
Door Latch Assembly - Rear Cargo

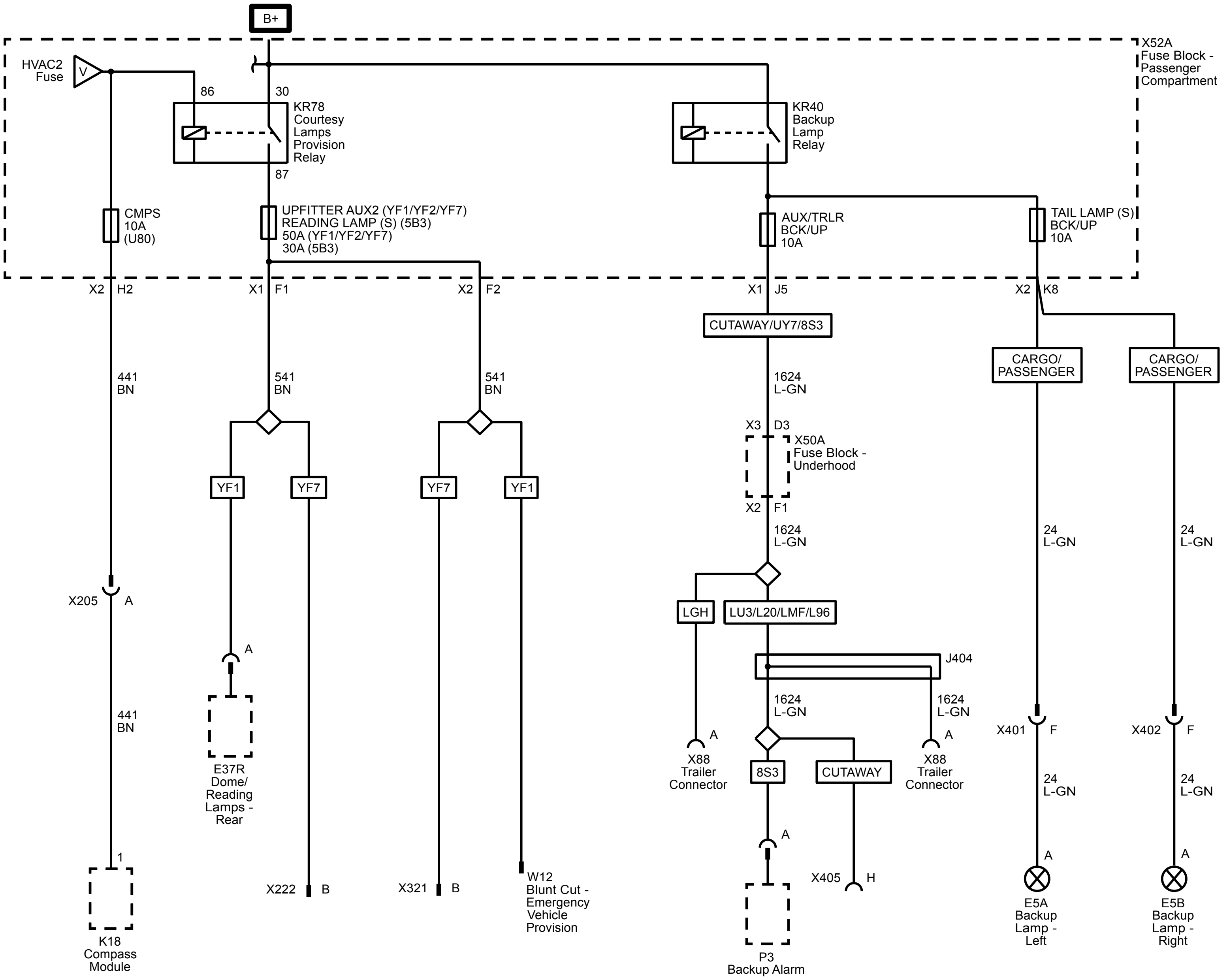
FRT DR LCK, REAR DR LCK and UPFITTER AUX1 Fuses


B+
X52A
Fuse Block -
Passenger
Compartment
KR97
Door Lock
Relay
FRT DR LCK
15A
(AU3)
REAR DR LCK
15A
(AU3)
UPFITTER AUX1
50A
(YF1/YF2/YF7)
X2
J5
G5
G4
E2
X1
E1
E26
E24/YA2
PASSENGER/CARGO
YF7
PRP
1042
RD/BK
1042
RD/BK
1042
RD/BK
J302
UF2
YF1
YF7
295
GY
1042
RD
1042
RD
X53A
Fuse
Block -
Rear
Body
18
19
PANEL
ACTUATOR
45A
16
17
DOME
FLUORESCENT
WORK LAMPS
10A
B
X87LB
Sliding
Door Jamb
Contact
Plate -
Left Body
B
X87RB
Sliding
Door Jamb
Contact
Plate -
Right Body
840
OG
J312
840
OG
840
OG
740
OG
A1
C1
KR45
Fluorescent Work
Lamp Relay
X500
B8
X600
B2
X400
F
J303
X2
B
B (YA2)
A (E24)
X321
A
X222
A
740
OG
15
11
5
1
10
6
A23D
Door
Latch
Assembly
- Driver
A23P
Door Latch
Assembly -
Passenger
M14LR
Door Lock
Actuator -
Left Rear
M14RR
Door Lock
Actuator -
Right Rear
M13
Door Latch
Assembly -
Rear Cargo
W12
Blunt Cut -
Emergency
Vehicle
Provision
KR89RR
Right Rear
Access
Panel Relay
KR89LF
Left Front
Access
Panel
Relay
KR89LR
Left Rear
Access
Panel
Relay
X53A
Fuse
Block -
Rear
Body

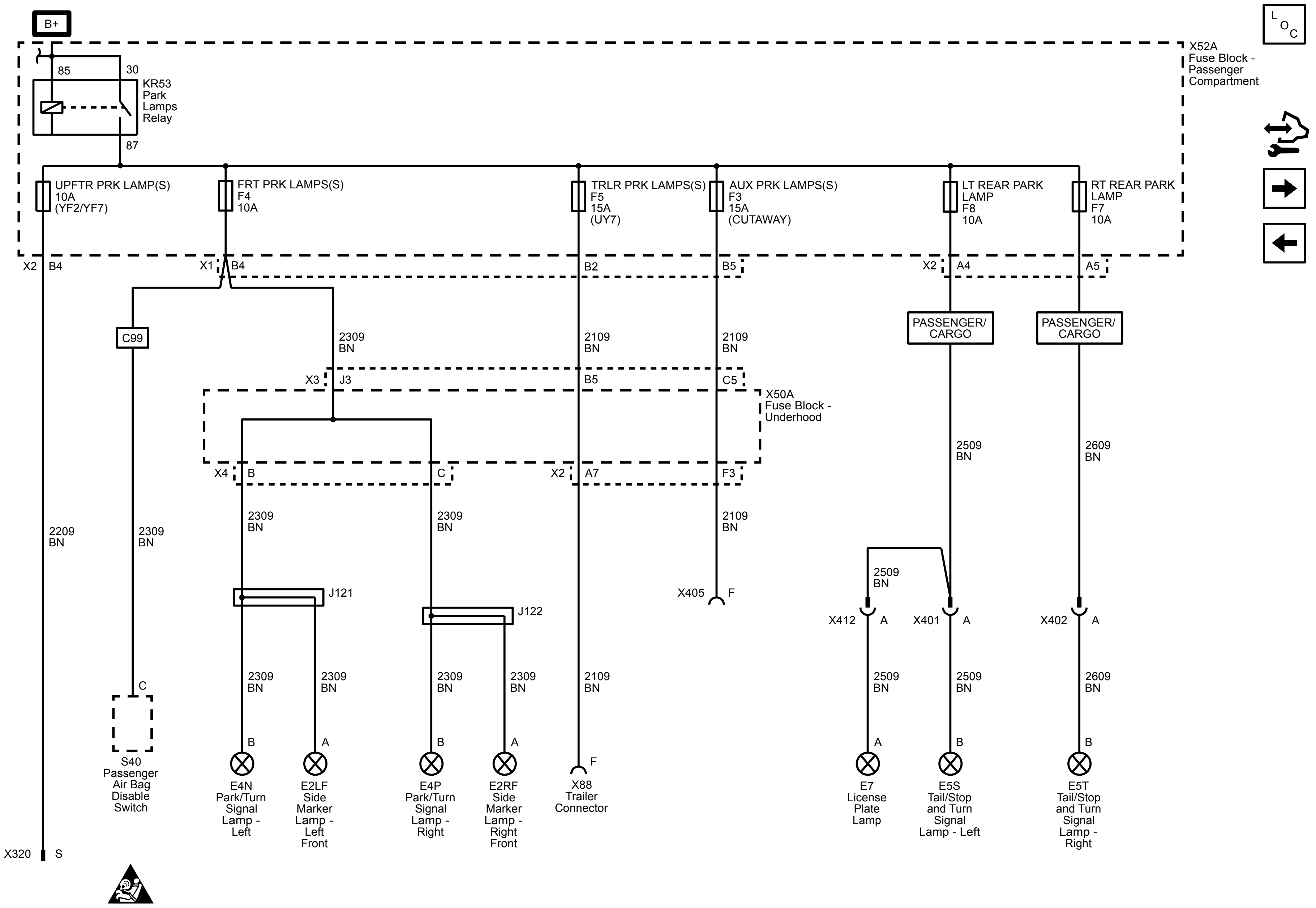
HVAC1 and HVAC2 Fuses


B+
X52A
Fuse Block - Passenger Compartment
L O C
30
KR74
Ignition
Run Relay
87
CMPS
Fuse
V
HVAC1
20A
HVAC2
10A
X1
D5
C8
B3
C5
X2
C4
C3
C5
LGH
C49/DE5/
DE7/C60
C69/C36/ENC
C69
C49/DE5/DE7/C60
141
BN
141
BN
341
BN
341
BN
341
BN
341
BN
X205
F
341
BN
X100
5
X407
E
6807
D-BU
-YF7
YF7/SWB
PASSENGER
341
BN
J405
J307
141
BN
341
BN
341
BN
341
BN
341
BN
341
BN
341
BN
341
BN
341
BN
341
BN
341
BN
X420
G
341
BN
G
X1 1
X2 E
B
10
X3 B
C2
10
C2
10
C2
G
J
X81
Accessory
Power
Receptacle -
110V AC
S34
HVAC
Controls
Switch
Assembly
G34
Evaporative
Emission
System Leak
Detection
Pump
M6
Air
Temperature
Door
Actuator
S34
HVAC
Controls
Switch
Assembly
KR32C
Blower
Motor Low
Speed Relay
- Auxiliary
M37B
Mode Door
Actuator -
Auxiliary
KR32D
Blower
Motor
Medium
Speed
Relay -
Auxiliary
M6B
Air
Temperature
Door
Actuator -
Auxiliary
KR32B
Blower
Motor High
Speed
Relay -
Auxiliary
S34F
HVAC
Controls
Switch
Assembly -
Auxiliary Front
S34R
HVAC Controls
Switch
Assembly -
Auxiliary Rear
S34F
HVAC
Controls
Switch
Assembly -
Auxiliary Front

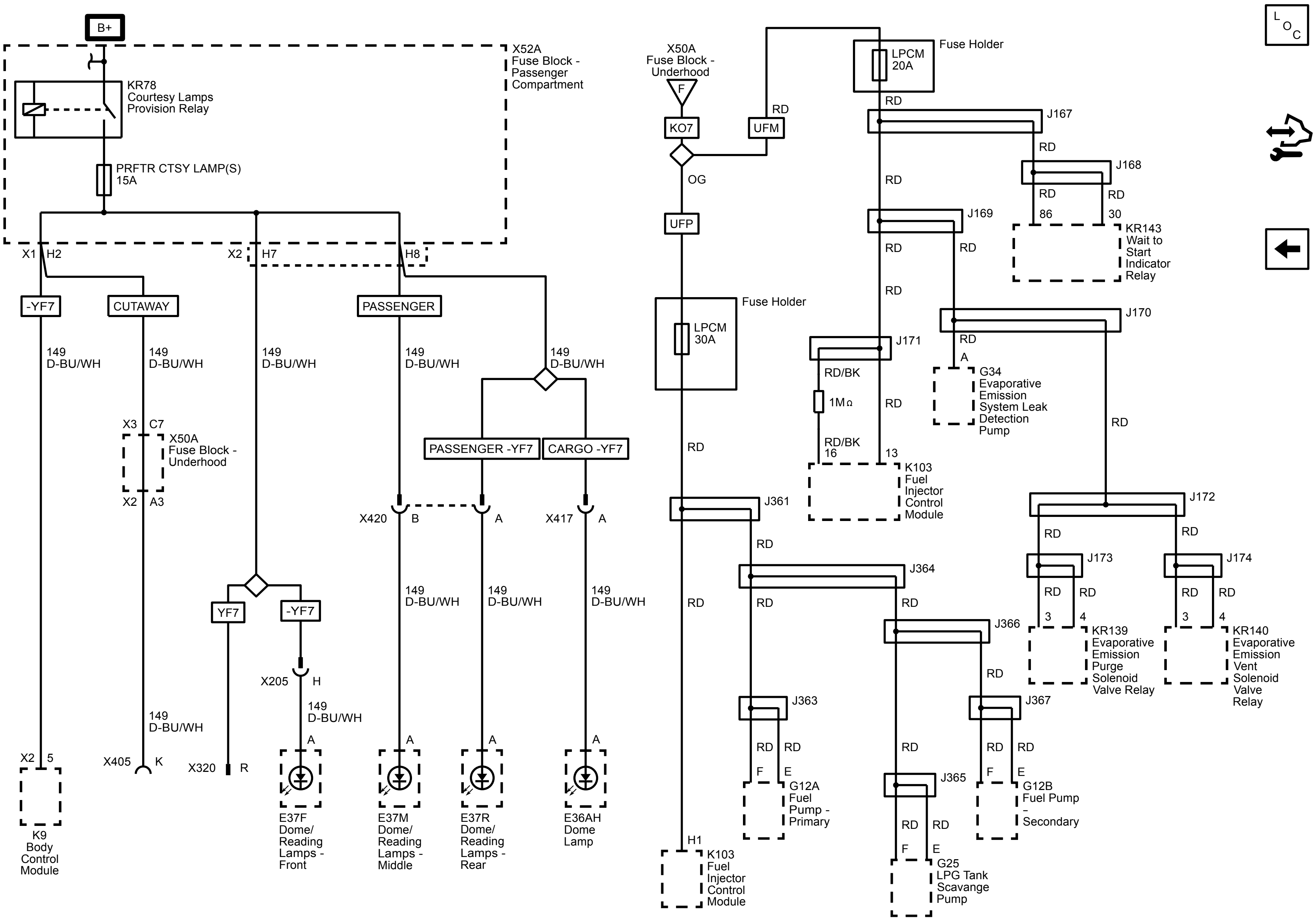
AUX/TRLR BCK/UP, CMPS, READING LAMP(S), TAIL LAMP(S), AND UPFITTER AUX2 Fuses


B+
X52A Fuse Block - Passenger Compartment
HVAC2 Fuse
V
86
30
KR78 Courtesy Lamps Provision Relay
87
KR40 Backup Lamp Relay
CMPS 10A (U80)
UPFITTER AUX2 (YF1/YF2/YF7)
READING LAMP (S) (5B3)
50A (YF1/YF2/YF7)
30A (5B3)
AUX/TRLR BCK/UP 10A
TAIL LAMP (S) BCK/UP 10A
X2 H2
X1 F1
X2 F2
X1 J5
X2 K8
CUTAWAY/UY7/8S3
CARGO/ PASSENGER
CARGO/ PASSENGER
441 BN
541 BN
541 BN
1624 L-GN
X3 D3
X50A Fuse Block - Underhood
X2 F1
1624 L-GN
YF1
YF7
YF7
YF1
24 L-GN
24 L-GN
X205 A
441 BN
A
E37R Dome/ Reading Lamps - Rear
LGH
LU3/L20/LMF/L96
J404
1624 L-GN
1624 L-GN
A
X88 Trailer Connector
A
X88 Trailer Connector
8S3
CUTAWAY
X401 F
X402 F
24 L-GN
24 L-GN
1
K18 Compass Module
X222 B
X321 B
W12 Blunt Cut - Emergency Vehicle Provision
A
P3 Backup Alarm
X405 H
A
E5A Backup Lamp - Left
A
E5B Backup Lamp - Right

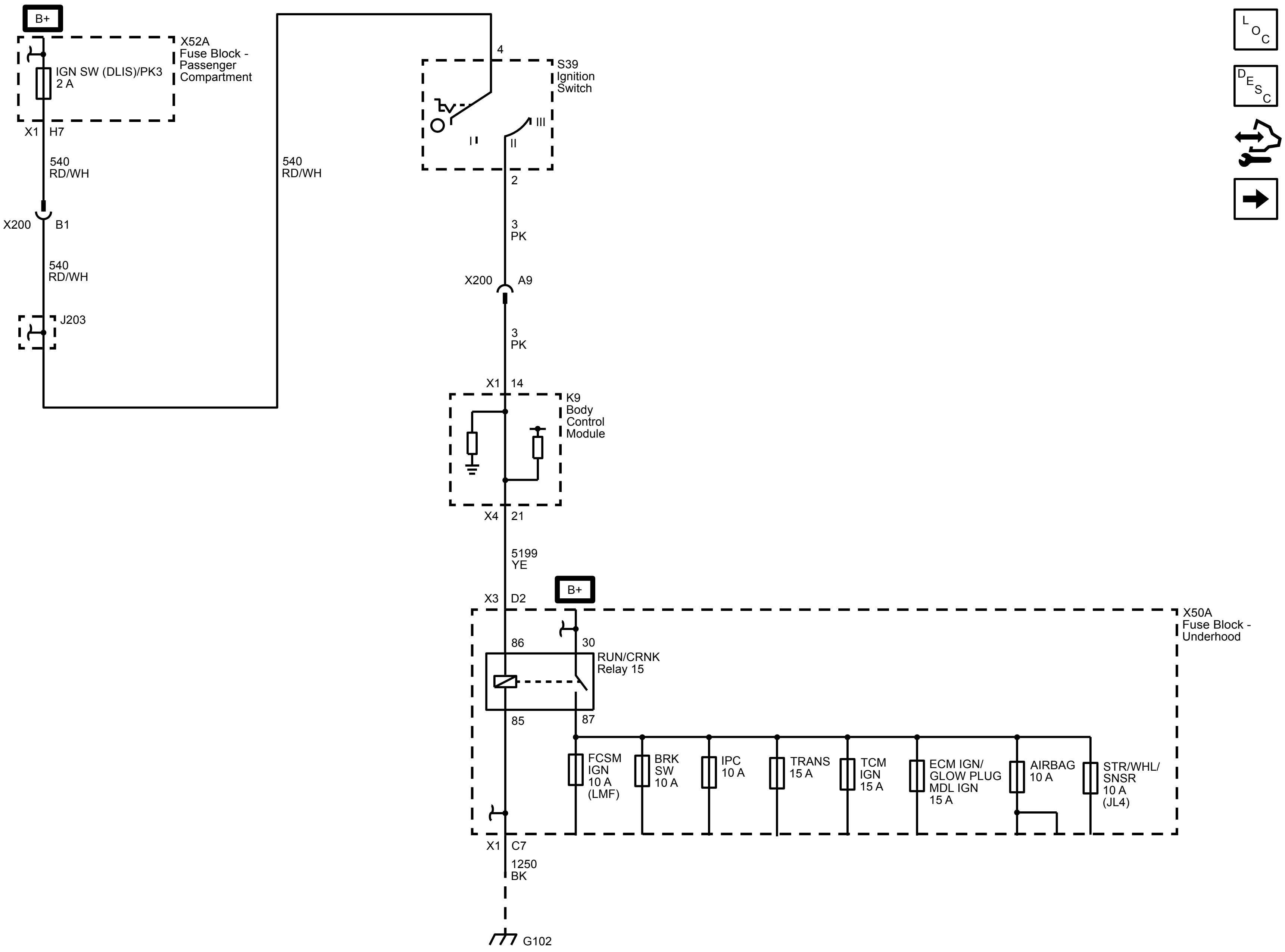
AUX PRK LAMP(S), FRT PRK LAMP(S), LT REAR PARK LAMP, RT REAR PRK LAMP, TRLR PRK LAMP(S), and UPFTR PRK LAMP(S) Fuses


B+
85
30
KR53 Park Lamps Relay
87
X52A Fuse Block - Passenger Compartment
L O C
UPFTR PRK LAMP(S) 10A (YF2/YF7)
FRT PRK LAMPS(S) F4 10A
TRLR PRK LAMPS(S) F5 15A (UY7)
AUX PRK LAMPS(S) F3 15A (CUTAWAY)
LT REAR PARK LAMP F8 10A
RT REAR PARK LAMP F7 10A
X2 B4
X1 B4
B2
B5
X2 A4
A5
C99
2309 BN
2109 BN
2109 BN
PASSENGER/ CARGO
PASSENGER/ CARGO
X3 J3
B5
C5
X50A Fuse Block - Underhood
2509 BN
2609 BN
X4 B
C
X2 A7
F3
2209 BN
2309 BN
2309 BN
2309 BN
2109 BN
2509 BN
J121
J122
X405 F
X412 A
X401 A
X402 A
C
2309 BN
2309 BN
2309 BN
2309 BN
2109 BN
2509 BN
2509 BN
2609 BN
B
A
B
A
F
A
B
B
S40 Passenger Air Bag Disable Switch
E4N Park/Turn Signal Lamp - Left
E2LF Side Marker Lamp - Left Front
E4P Park/Turn Signal Lamp - Right
E2RF Side Marker Lamp - Right Front
X88 Trailer Connector
E7 License Plate Lamp
E5S Tail/Stop and Turn Signal Lamp - Left
E5T Tail/Stop and Turn Signal Lamp - Right
X320 S

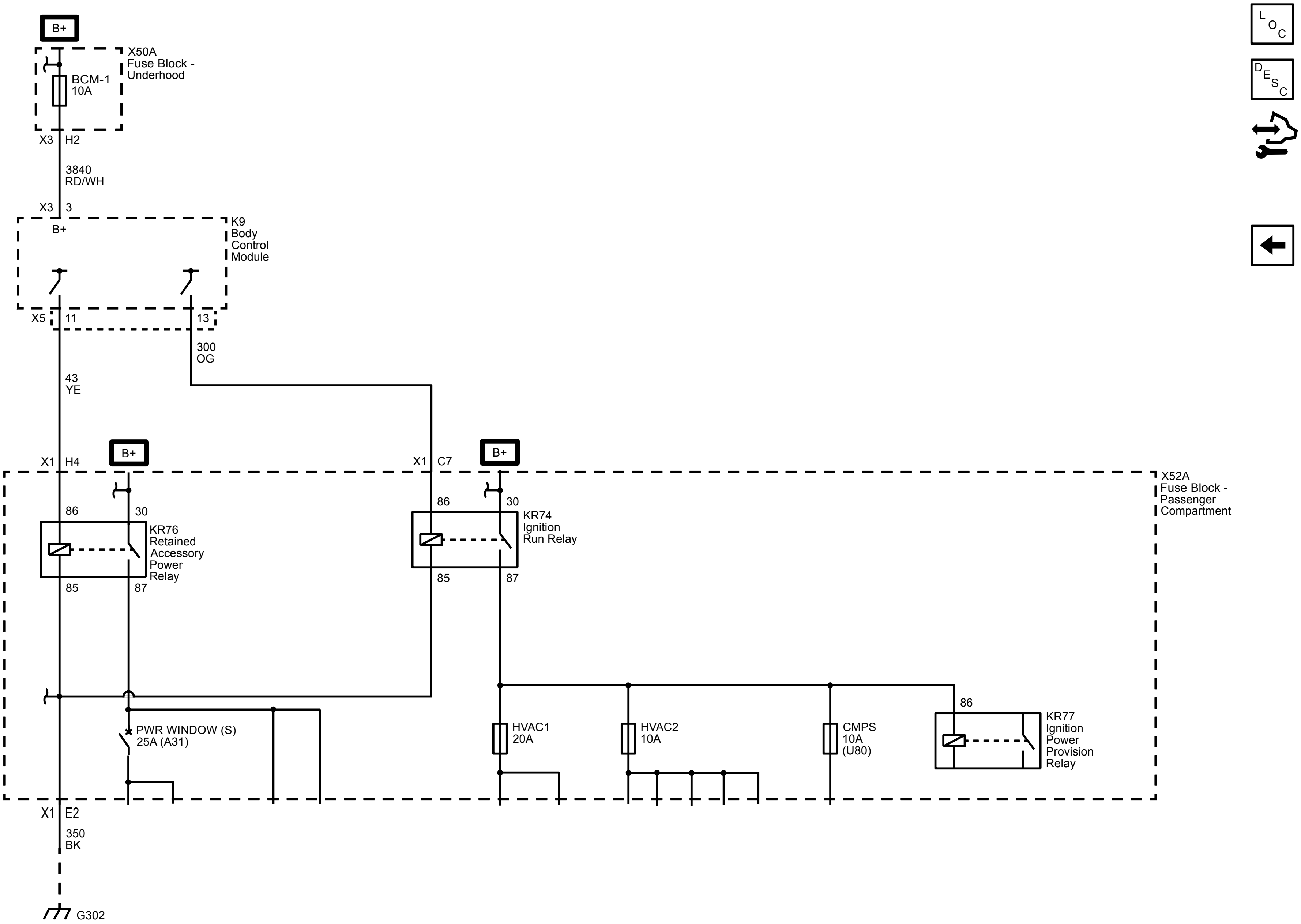
UPFTR CTSY LAMP(S) Fuse and LPCM Fuse (KO7)


B+
X52A Fuse Block - Passenger Compartment
KR78 Courtesy Lamps Provision Relay
PRFTR CTSY LAMP(S) 15A
X1 H2
X2 H7
H8
-YF7
CUTAWAY
PASSENGER
149 D-BU/WH
PASSENGER -YF7
CARGO -YF7
X3 C7
X50A Fuse Block - Underhood
X2 A3
X420 B
A
X417 A
YF7
-YF7
X205 H
X2 5
X405 K
X320 R
A
K9 Body Control Module
E37F Dome/ Reading Lamps - Front
E37M Dome/ Reading Lamps - Middle
E37R Dome/ Reading Lamps - Rear
E36AH Dome Lamp
X50A Fuse Block - Underhood
F
KO7
UFM
RD
OG
UFP
Fuse Holder
LPCM 30A
LPCM 20A
J167
J168
86
30
KR143 Wait to Start Indicator Relay
J169
J170
J171
RD/BK
1MΩ
RD/BK 16
13
K103 Fuel Injector Control Module
G34 Evaporative Emission System Leak Detection Pump
J361
J364
J366
J363
J367
J365
J172
J173
J174
3
4
KR139 Evaporative Emission Purge Solenoid Valve Relay
KR140 Evaporative Emission Vent Solenoid Valve Relay
F
E
G12A Fuel Pump - Primary
G12B Fuel Pump - Secondary
G25 LPG Tank Scavange Pump
H1
K103 Fuel Injector Control Module
L O C

RUN/CRNK Relay

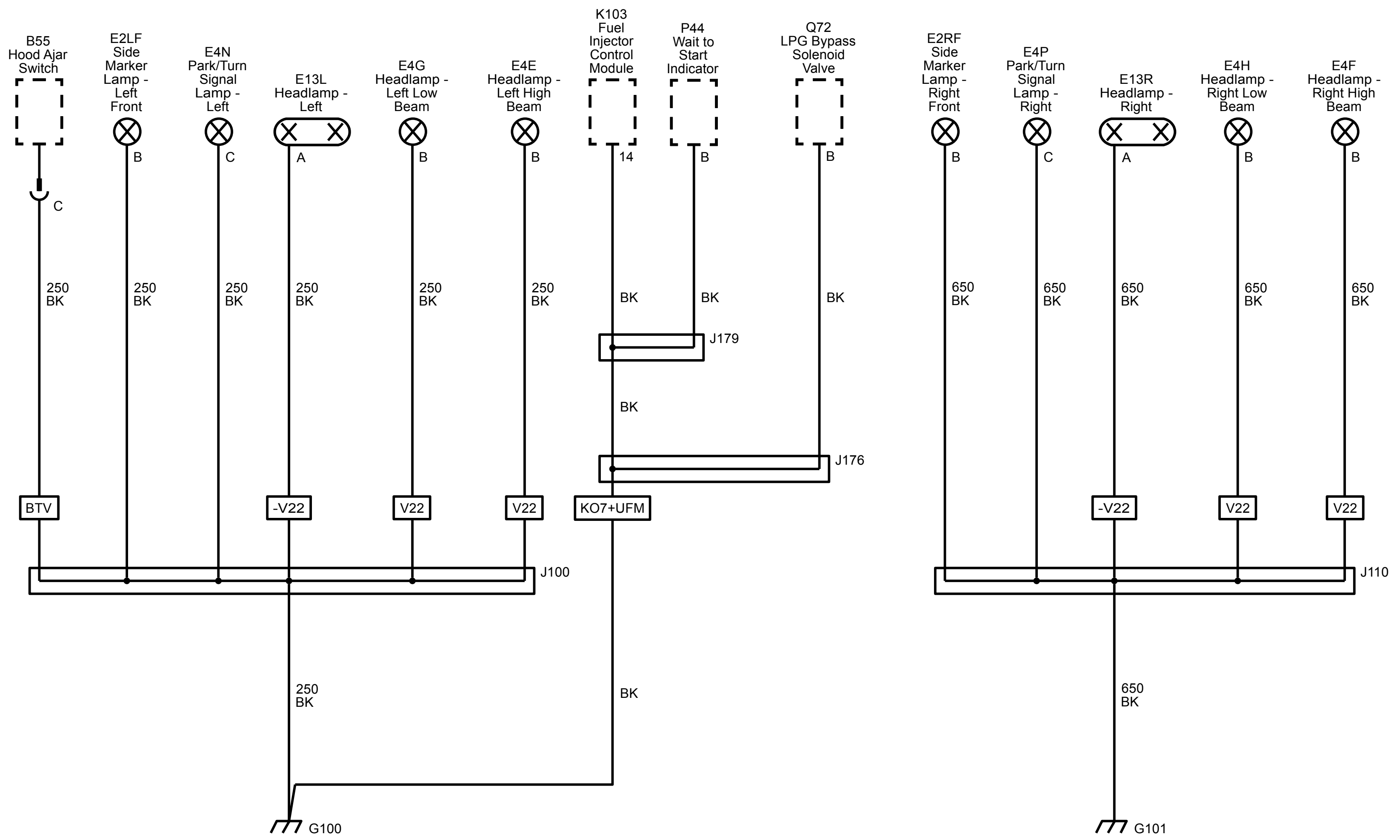

B+
X52A
Fuse Block -
Passenger
Compartment
IGN SW (DLIS)/PK3
2 A
X1
H7
540
RD/WH
X200
B1
540
RD/WH
J203
540
RD/WH
4
S39
Ignition
Switch
III
II
I
2
3
PK
X200
A9
3
PK
X1
14
K9
Body
Control
Module
X4
21
5199
YE
B+
X3
D2
X50A
Fuse Block -
Underhood
86
30
RUN/CRNK
Relay 15
85
87
FCSM
IGN
10 A
(LMF)
BRK
SW
10 A
IPC
10 A
TRANS
15 A
TCM
IGN
15 A
ECM IGN/
GLOW PLUG
MDL IGN
15 A
AIRBAG
10 A
STR/WHL/
SNSR
10 A
(JL4)
X1
C7
1250
BK
G102

RAP and RUN Relays


B+
X50A
Fuse Block -
Underhood
BCM-1
10A
X3
H2
3840
RD/WH
X3
3
B+
K9
Body
Control
Module
X5
11
13
300
OG
43
YE
X1
H4
B+
X1
C7
B+
X52A
Fuse Block -
Passenger
Compartment
86
30
KR76
Retained
Accessory
Power
Relay
85
87
86
30
KR74
Ignition
Run Relay
85
87
PWR WINDOW (S)
25A (A31)
HVAC1
20A
HVAC2
10A
CMPS
10A
(U80)
86
KR77
Ignition
Power
Provision
Relay
X1
E2
350
BK
G302
L
O
C
D
E
S
C

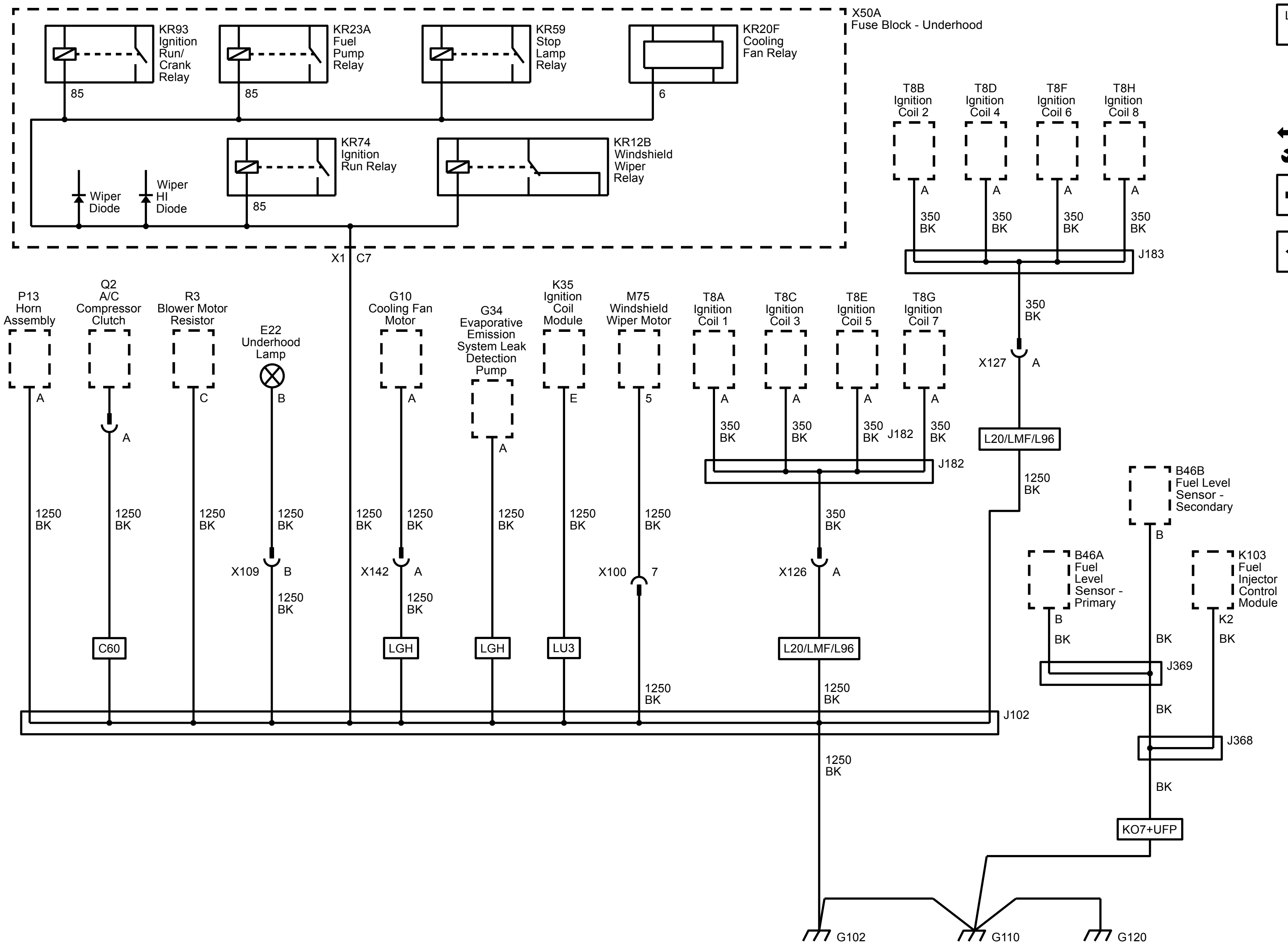
Ground Distribution Schematics

G100 and G101

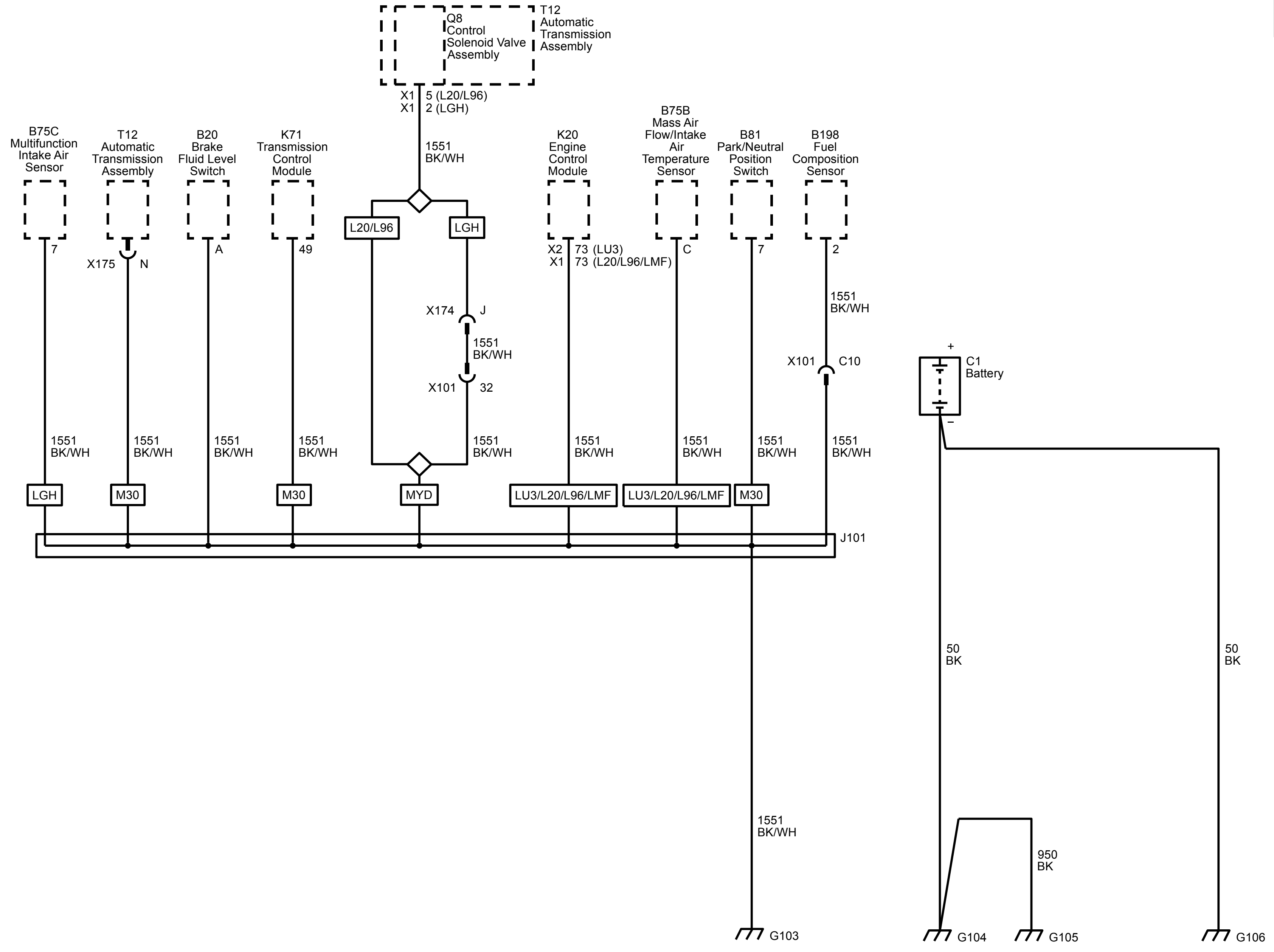


B55 Hood Ajar Switch
E2LF Side Marker Lamp - Left Front
E4N Park/Turn Signal Lamp - Left
E13L Headlamp - Left
E4G Headlamp - Left Low Beam
E4E Headlamp - Left High Beam
K103 Fuel Injector Control Module
P44 Wait to Start Indicator
Q72 LPG Bypass Solenoid Valve
E2RF Side Marker Lamp - Right Front
E4P Park/Turn Signal Lamp - Right
E13R Headlamp - Right
E4H Headlamp - Right Low Beam
E4F Headlamp - Right High Beam
C
B
C
A
B
B
14
B
B
B
C
A
B
B
250 BK
650 BK
BK
J179
J176
BTV
-V22
V22
KO7+UFM
J100
J110
G100
G101

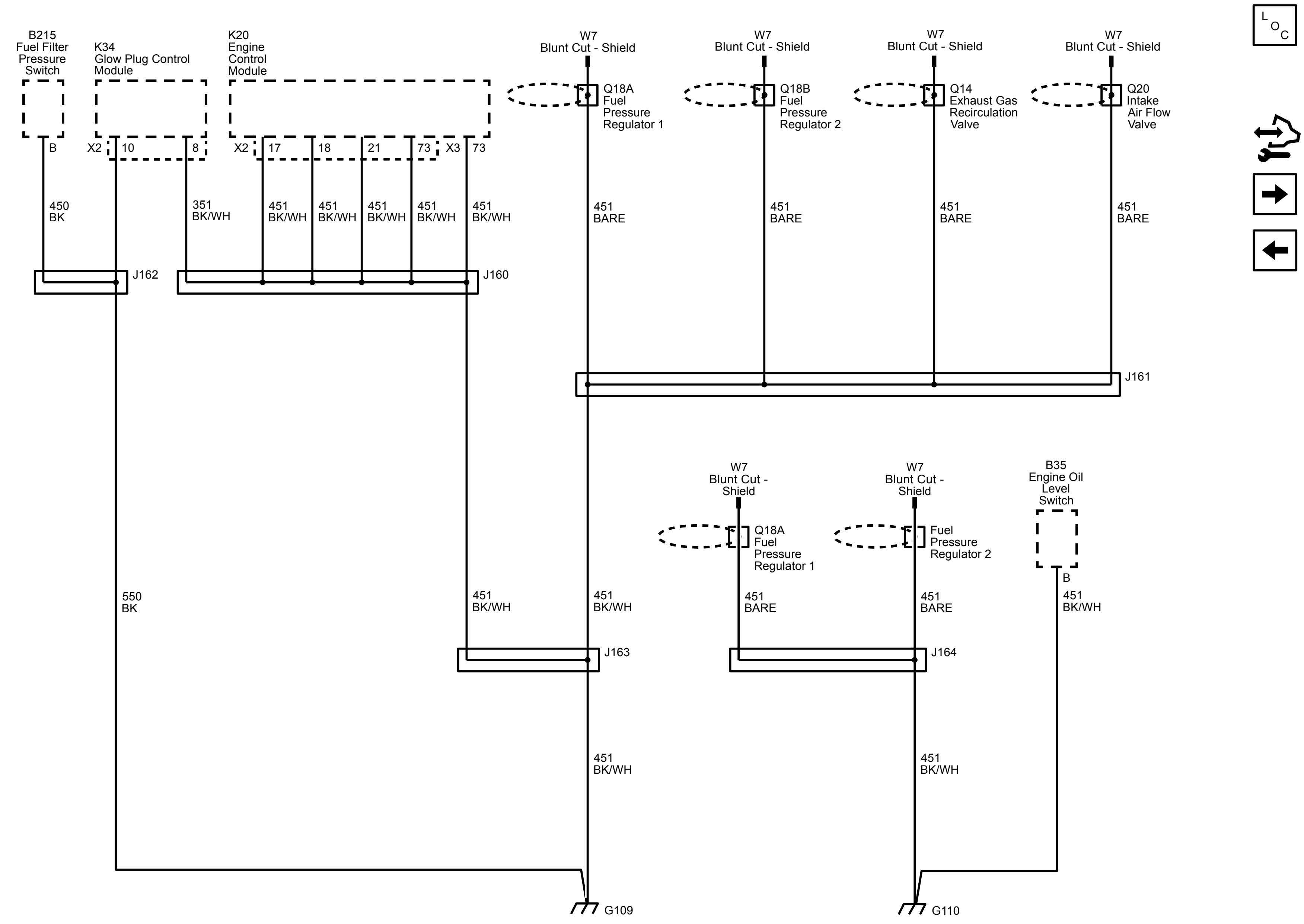
G102, G110 and G120


X50A
Fuse Block - Underhood
KR93 Ignition Run/ Crank Relay
85
KR23A Fuel Pump Relay
85
KR59 Stop Lamp Relay
KR20F Cooling Fan Relay
6
KR74 Ignition Run Relay
85
KR12B Windshield Wiper Relay
Wiper Diode
Wiper HI Diode
X1
C7
T8B Ignition Coil 2
T8D Ignition Coil 4
T8F Ignition Coil 6
T8H Ignition Coil 8
A
350 BK
J183
350 BK
X127
A
L20/LMF/L96
1250 BK
P13 Horn Assembly
Q2 A/C Compressor Clutch
R3 Blower Motor Resistor
E22 Underhood Lamp
G10 Cooling Fan Motor
G34 Evaporative Emission System Leak Detection Pump
K35 Ignition Coil Module
M75 Windshield Wiper Motor
T8A Ignition Coil 1
T8C Ignition Coil 3
T8E Ignition Coil 5
T8G Ignition Coil 7
A
C
B
E
5
350 BK
J182
1250 BK
X109
B
X142
A
X100
7
X126
A
C60
LGH
LGH
LU3
L20/LMF/L96
J102
B46B Fuel Level Sensor - Secondary
B
B46A Fuel Level Sensor - Primary
K103 Fuel Injector Control Module
K2
BK
J369
J368
KO7+UFP
G102
G110
G120

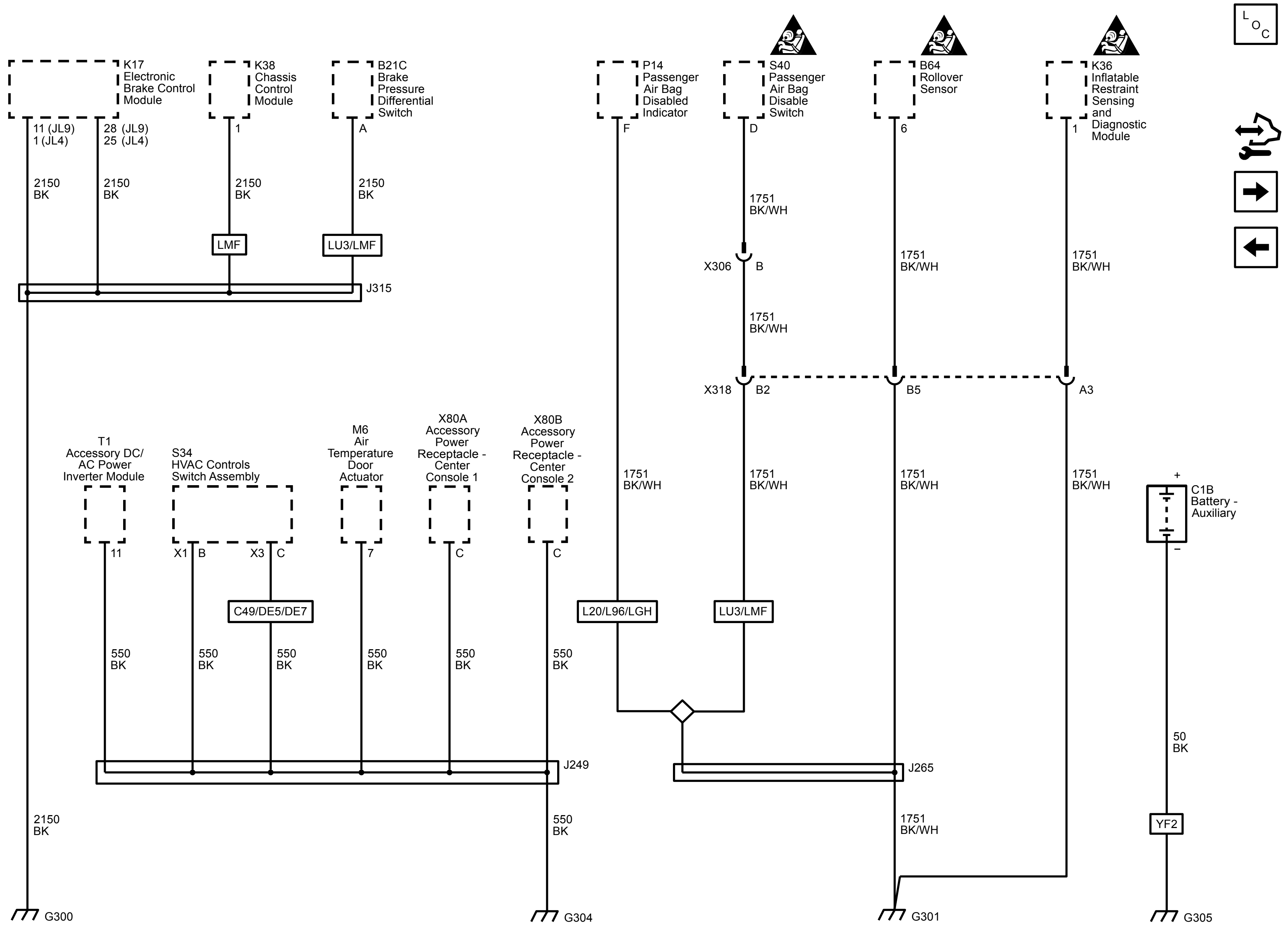
G103, G104, G105 and G106


T12 Automatic Transmission Assembly
Q8 Control Solenoid Valve Assembly
X1 5 (L20/L96)
X1 2 (LGH)
1551 BK/WH
B75C Multifunction Intake Air Sensor
T12 Automatic Transmission Assembly
B20 Brake Fluid Level Switch
K71 Transmission Control Module
K20 Engine Control Module
B75B Mass Air Flow/Intake Air Temperature Sensor
B81 Park/Neutral Position Switch
B198 Fuel Composition Sensor
7
X175 N
A
49
L20/L96
LGH
X2 73 (LU3)
X1 73 (L20/L96/LMF)
C
7
2
X174 J
1551 BK/WH
X101 32
X101 C10
C1 Battery
+
-
1551 BK/WH
LGH
M30
M30
MYD
LU3/L20/L96/LMF
LU3/L20/L96/LMF
M30
J101
50 BK
50 BK
950 BK
1551 BK/WH
G103
G104
G105
G106

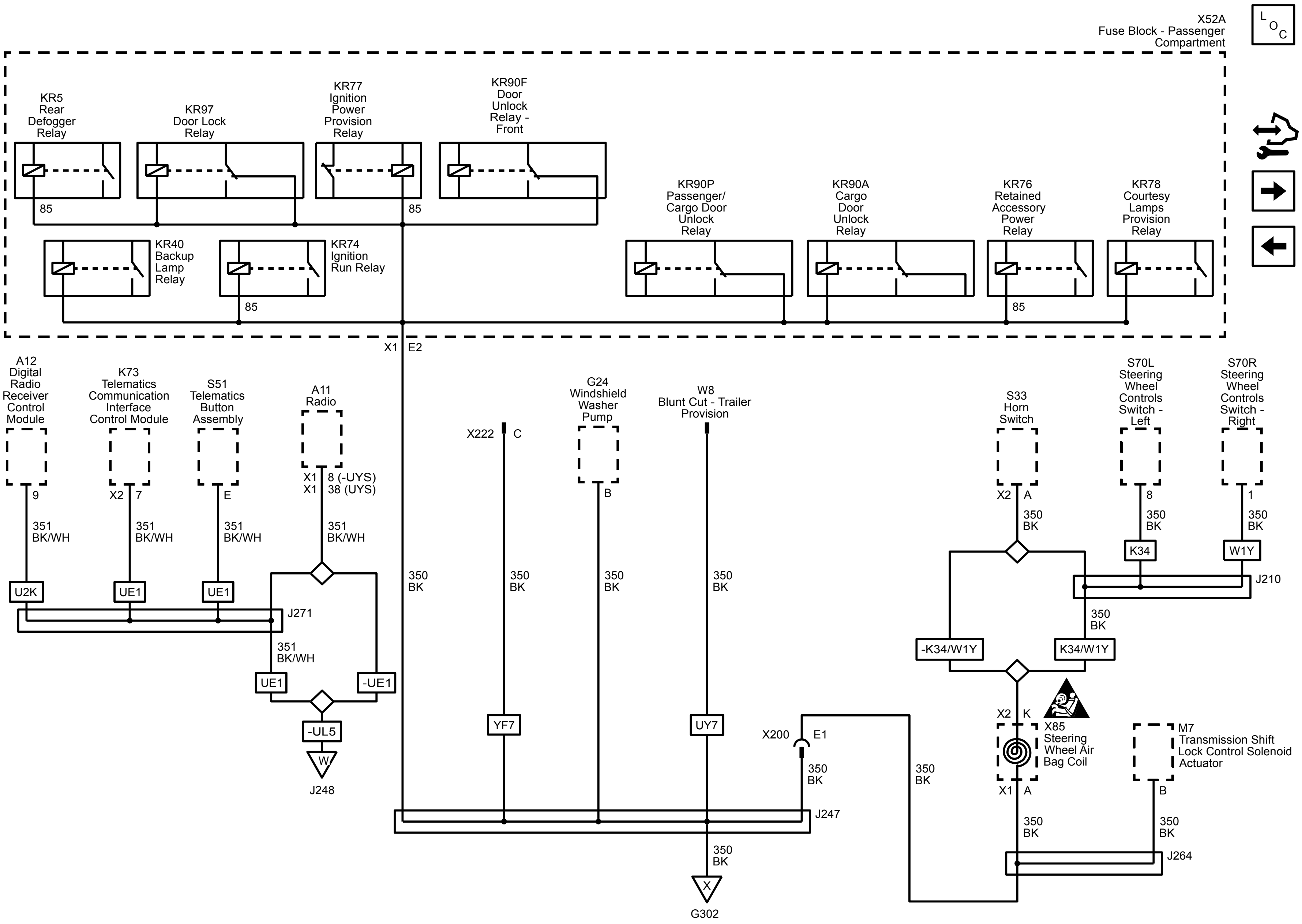
G109 (LGH) and G110 (LGH)


B215
Fuel Filter Pressure Switch
K34
Glow Plug Control Module
K20
Engine Control Module
W7
Blunt Cut - Shield
Q18A
Fuel Pressure Regulator 1
Q18B
Fuel Pressure Regulator 2
Q14
Exhaust Gas Recirculation Valve
Q20
Intake Air Flow Valve
B
X2
10
8
17
18
21
73
X3
450
BK
351
BK/WH
451
BK/WH
451
BARE
J162
J160
J161
B35
Engine Oil Level Switch
Fuel Pressure Regulator 2
550
BK
J163
J164
G109
G110
LOC

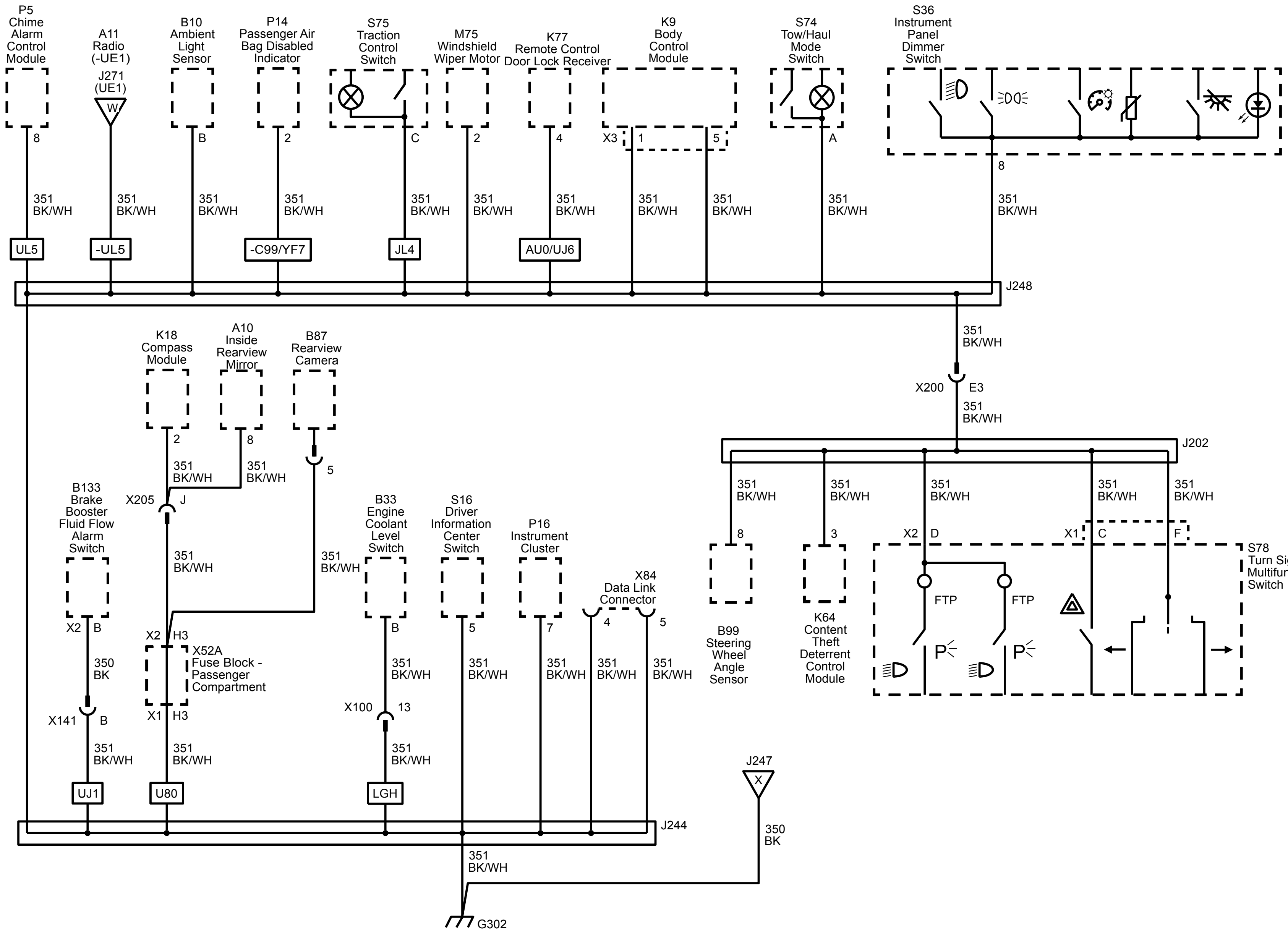
G300, G301, G304, and G305


K17 Electronic Brake Control Module
11 (JL9) 1 (JL4)
28 (JL9) 25 (JL4)
2150 BK
2150 BK
K38 Chassis Control Module
1
2150 BK
LMF
B21C Brake Pressure Differential Switch
A
2150 BK
LU3/LMF
J315
2150 BK
G300
T1 Accessory DC/ AC Power Inverter Module
11
550 BK
S34 HVAC Controls Switch Assembly
X1 B
X3 C
C49/DE5/DE7
550 BK
550 BK
M6 Air Temperature Door Actuator
7
550 BK
X80A Accessory Power Receptacle - Center Console 1
C
550 BK
X80B Accessory Power Receptacle - Center Console 2
C
550 BK
J249
550 BK
G304
P14 Passenger Air Bag Disabled Indicator
F
1751 BK/WH
L20/L96/LGH
S40 Passenger Air Bag Disable Switch
D
1751 BK/WH
X306 B
1751 BK/WH
X318 B2
1751 BK/WH
LU3/LMF
B64 Rollover Sensor
6
1751 BK/WH
B5
1751 BK/WH
K36 Inflatable Restraint Sensing and Diagnostic Module
1
1751 BK/WH
A3
1751 BK/WH
J265
1751 BK/WH
G301
C1B Battery - Auxiliary
+
–
50 BK
YF2
G305
L O C

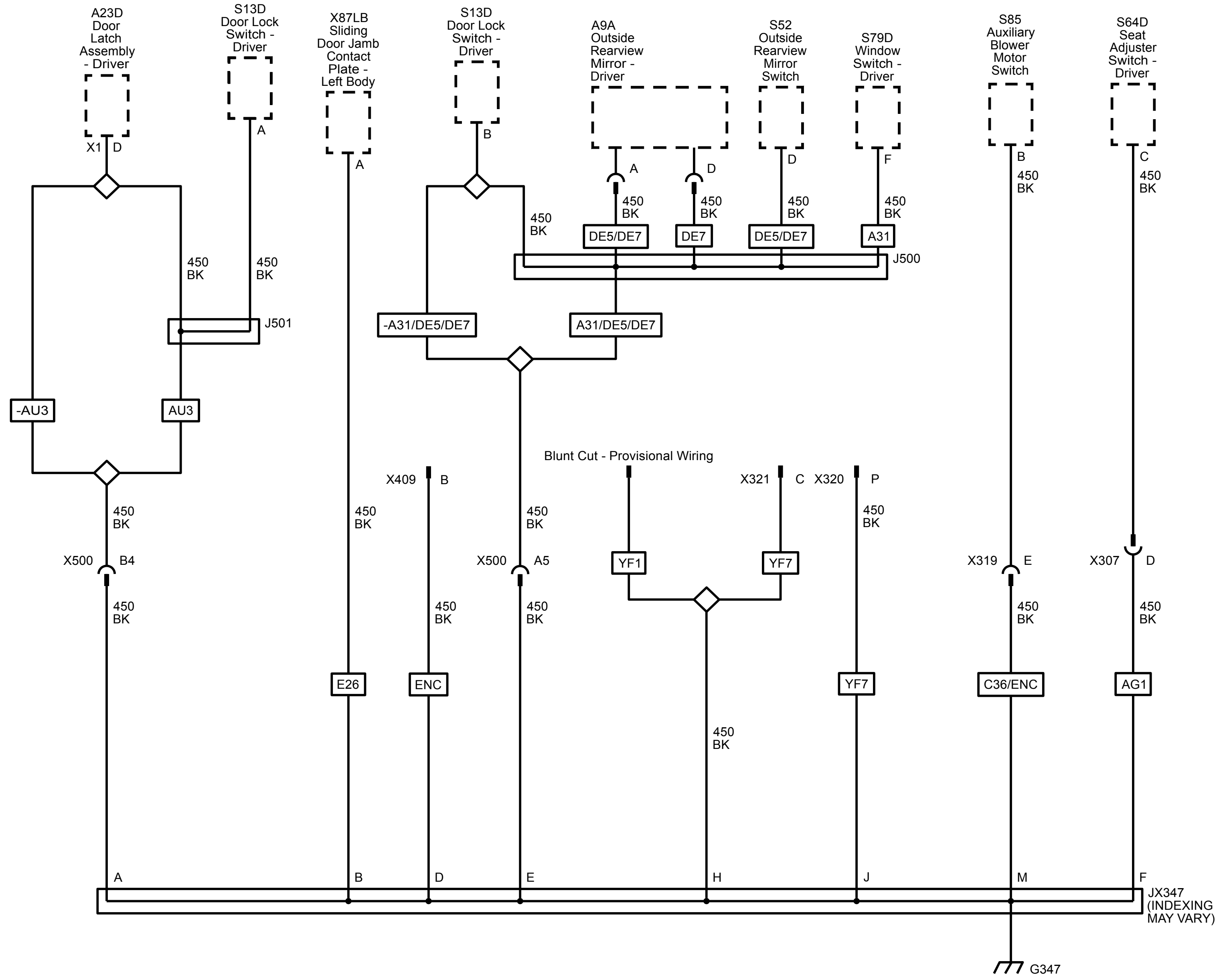
G302 (1 of 2)


X52A
Fuse Block - Passenger Compartment
L O C
KR5 Rear Defogger Relay
KR97 Door Lock Relay
KR77 Ignition Power Provision Relay
KR90F Door Unlock Relay - Front
85
85
KR40 Backup Lamp Relay
KR74 Ignition Run Relay
85
KR90P Passenger/ Cargo Door Unlock Relay
KR90A Cargo Door Unlock Relay
KR76 Retained Accessory Power Relay
KR78 Courtesy Lamps Provision Relay
85
X1 E2
A12 Digital Radio Receiver Control Module
K73 Telematics Communication Interface Control Module
S51 Telematics Button Assembly
A11 Radio
9
X2 7
E
X1 8 (-UYS)
X1 38 (UYS)
351 BK/WH
351 BK/WH
351 BK/WH
351 BK/WH
U2K
UE1
UE1
J271
351 BK/WH
UE1
-UE1
-UL5
W
J248
350 BK
X222 C
350 BK
YF7
G24 Windshield Washer Pump
B
350 BK
W8 Blunt Cut - Trailer Provision
350 BK
UY7
X200 E1
350 BK
J247
350 BK
X
G302
350 BK
S33 Horn Switch
X2 A
350 BK
S70L Steering Wheel Controls Switch - Left
8
350 BK
K34
S70R Steering Wheel Controls Switch - Right
1
350 BK
W1Y
J210
350 BK
-K34/W1Y
K34/W1Y
X2 K
X85 Steering Wheel Air Bag Coil
X1 A
350 BK
M7 Transmission Shift Lock Control Solenoid Actuator
B
350 BK
J264

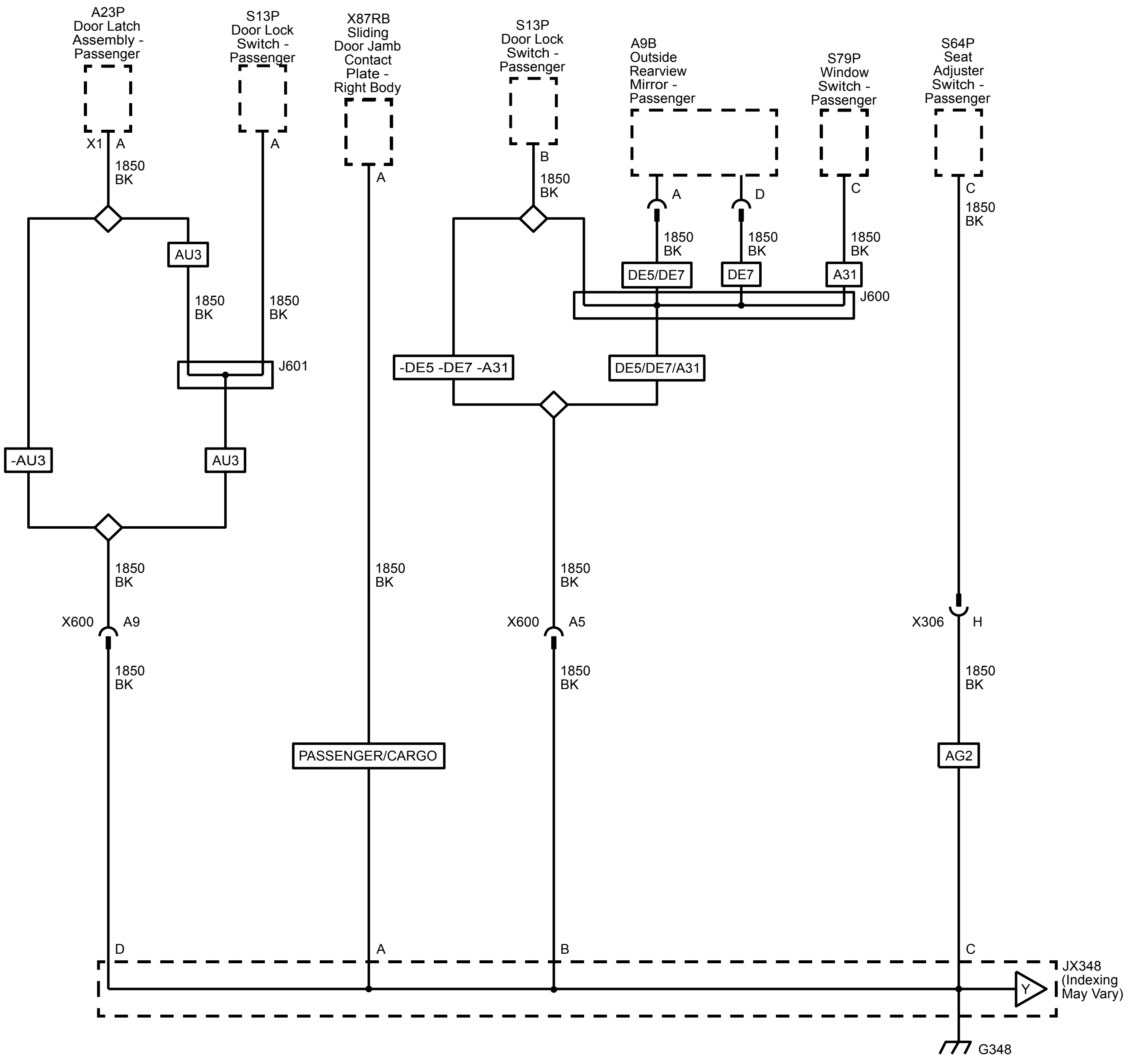
G302 (2 of 2)


P5 Chime Alarm Control Module
8
351 BK/WH
UL5
A11 Radio (-UE1)
J271 (UE1)
W
351 BK/WH
-UL5
B10 Ambient Light Sensor
B
351 BK/WH
P14 Passenger Air Bag Disabled Indicator
2
351 BK/WH
-C99/YF7
S75 Traction Control Switch
C
351 BK/WH
JL4
M75 Windshield Wiper Motor
2
351 BK/WH
K77 Remote Control Door Lock Receiver
4
351 BK/WH
AU0/UJ6
K9 Body Control Module
X3
1
5
351 BK/WH
351 BK/WH
S74 Tow/Haul Mode Switch
A
351 BK/WH
S36 Instrument Panel Dimmer Switch
8
351 BK/WH
J248
351 BK/WH
X200
E3
351 BK/WH
J202
K18 Compass Module
2
351 BK/WH
A10 Inside Rearview Mirror
8
351 BK/WH
B87 Rearview Camera
5
X205
J
351 BK/WH
351 BK/WH
B133 Brake Booster Fluid Flow Alarm Switch
X2
B
350 BK
X141
B
351 BK/WH
UJ1
X2
H3
X52A Fuse Block - Passenger Compartment
X1
H3
351 BK/WH
U80
B33 Engine Coolant Level Switch
B
351 BK/WH
X100
13
351 BK/WH
LGH
S16 Driver Information Center Switch
5
351 BK/WH
P16 Instrument Cluster
7
351 BK/WH
X84 Data Link Connector
4
5
351 BK/WH
351 BK/WH
J244
351 BK/WH
G302
J247
X
350 BK
351 BK/WH
8
B99 Steering Wheel Angle Sensor
351 BK/WH
3
K64 Content Theft Deterrent Control Module
351 BK/WH
X2
D
351 BK/WH
X1
C
351 BK/WH
F
S78 Turn Signal/ Multifunction Switch
FTP
FTP
P
P

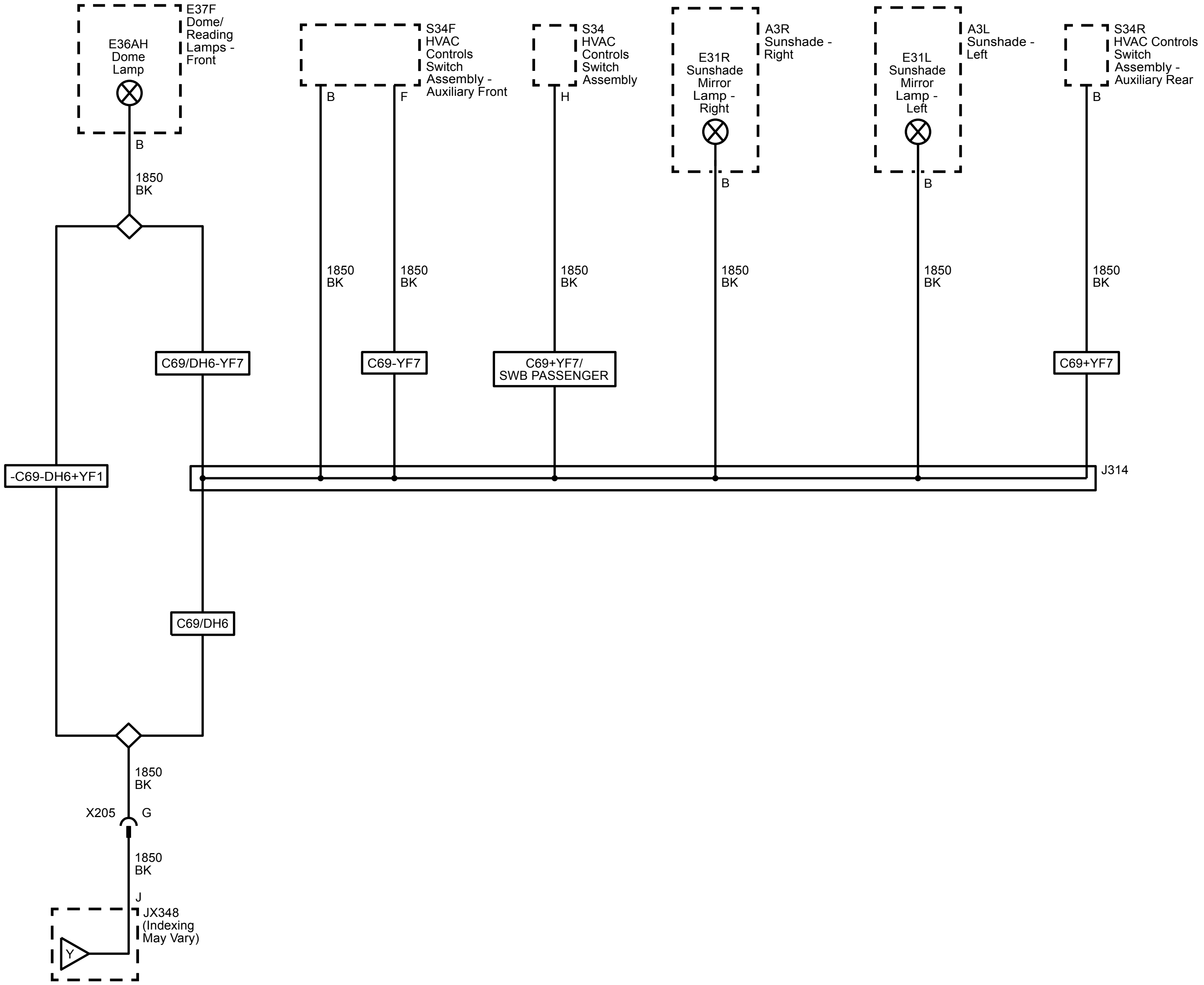
G347


A23D Door Latch Assembly - Driver
S13D Door Lock Switch - Driver
X87LB Sliding Door Jamb Contact Plate - Left Body
S13D Door Lock Switch - Driver
A9A Outside Rearview Mirror - Driver
S52 Outside Rearview Mirror Switch
S79D Window Switch - Driver
S85 Auxiliary Blower Motor Switch
S64D Seat Adjuster Switch - Driver
X1 D
A
A
B
A
D
D
F
B
C
450 BK
J501
J500
-AU3
AU3
-A31/DE5/DE7
A31/DE5/DE7
DE5/DE7
DE7
DE5/DE7
A31
Blunt Cut - Provisional Wiring
X409 B
X321 C
X320 P
X500 B4
X500 A5
X319 E
X307 D
YF1
YF7
E26
ENC
YF7
C36/ENC
AG1
A
B
D
E
H
J
M
F
JX347 (INDEXING MAY VARY)
G347

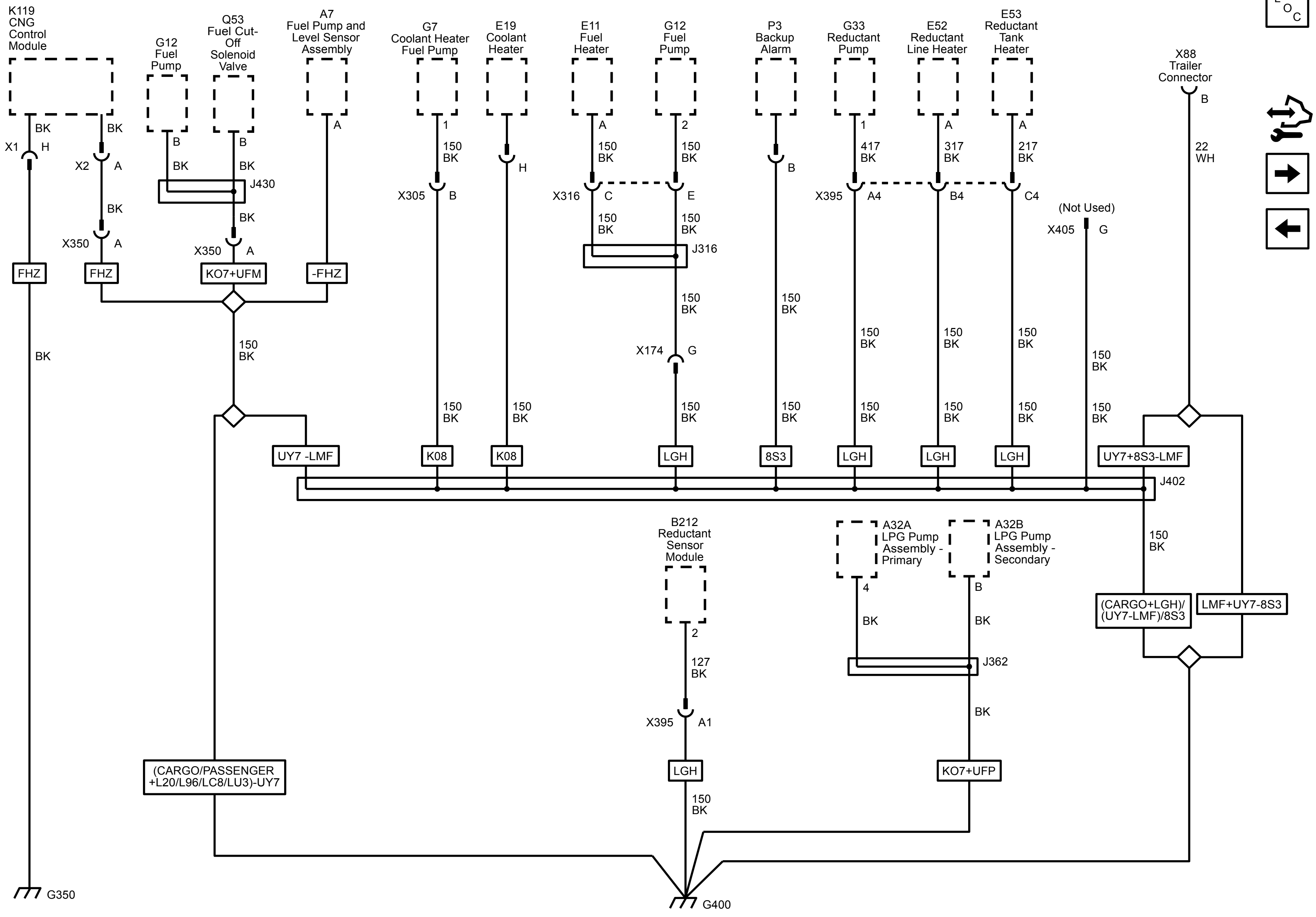
G348 (1 of 2)


A23P Door Latch Assembly - Passenger
S13P Door Lock Switch - Passenger
X87RB Sliding Door Jamb Contact Plate - Right Body
S13P Door Lock Switch - Passenger
A9B Outside Rearview Mirror - Passenger
S79P Window Switch - Passenger
S64P Seat Adjuster Switch - Passenger
X1 A
A
A
B
A
D
C
C
1850 BK
AU3
J601
-AU3
AU3
DE5/DE7
DE7
A31
J600
-DE5 -DE7 -A31
DE5/DE7/A31
X600 A9
X600 A5
X306 H
PASSENGER/CARGO
AG2
D
A
B
C
JX348 (Indexing May Vary)
Y
G348

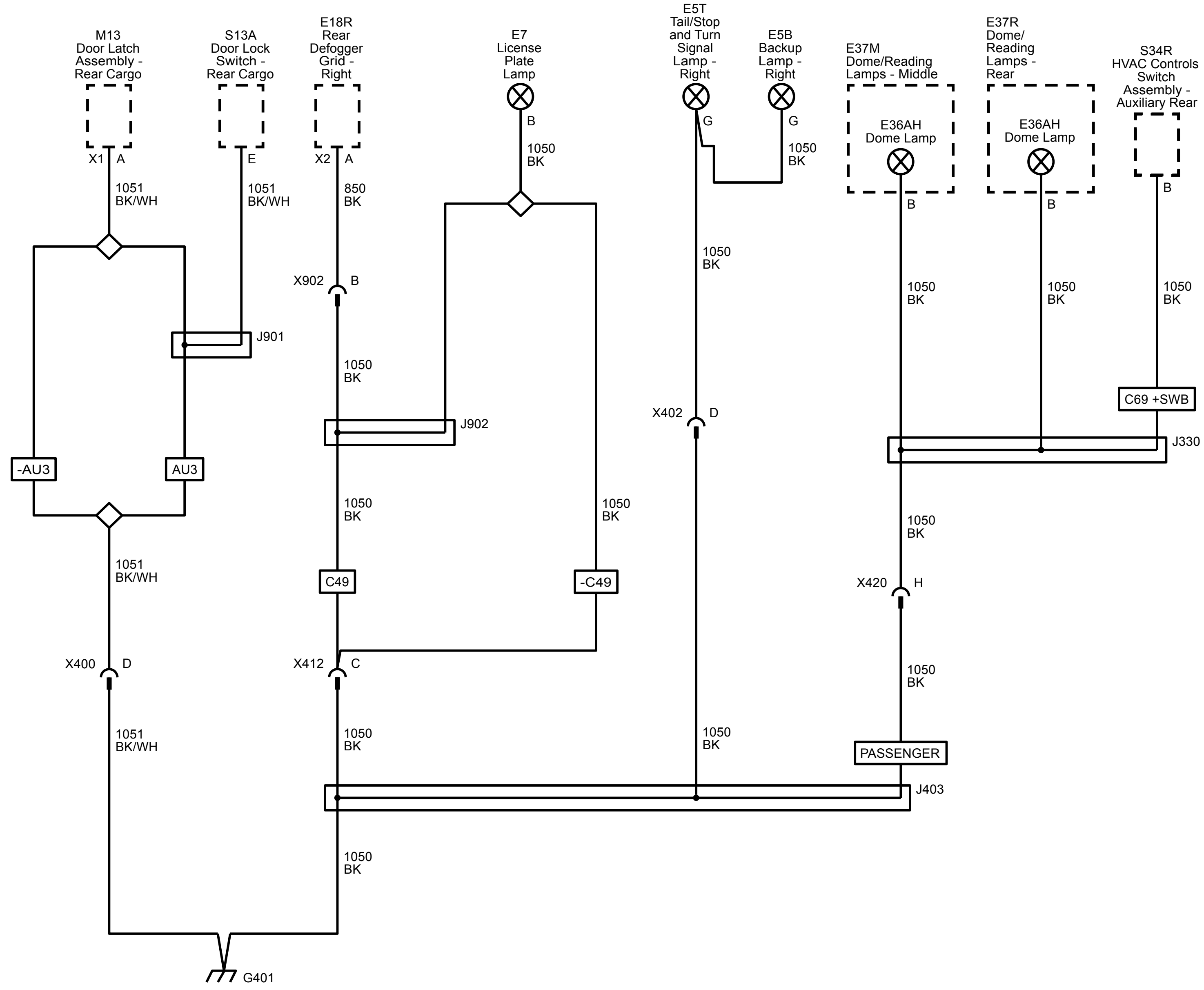
G348 (2 of 2)


E37F
Dome/
Reading
Lamps -
Front
E36AH
Dome
Lamp
B
1850
BK
S34F
HVAC
Controls
Switch
Assembly -
Auxiliary Front
B
F
1850
BK
1850
BK
S34
HVAC
Controls
Switch
Assembly
H
1850
BK
A3R
Sunshade -
Right
E31R
Sunshade
Mirror
Lamp -
Right
B
1850
BK
A3L
Sunshade -
Left
E31L
Sunshade
Mirror
Lamp -
Left
B
1850
BK
S34R
HVAC Controls
Switch
Assembly -
Auxiliary Rear
B
1850
BK
C69/DH6-YF7
C69-YF7
C69+YF7/
SWB PASSENGER
C69+YF7
-C69-DH6+YF1
J314
C69/DH6
1850
BK
X205
G
1850
BK
J
JX348
(Indexing
May Vary)
Y

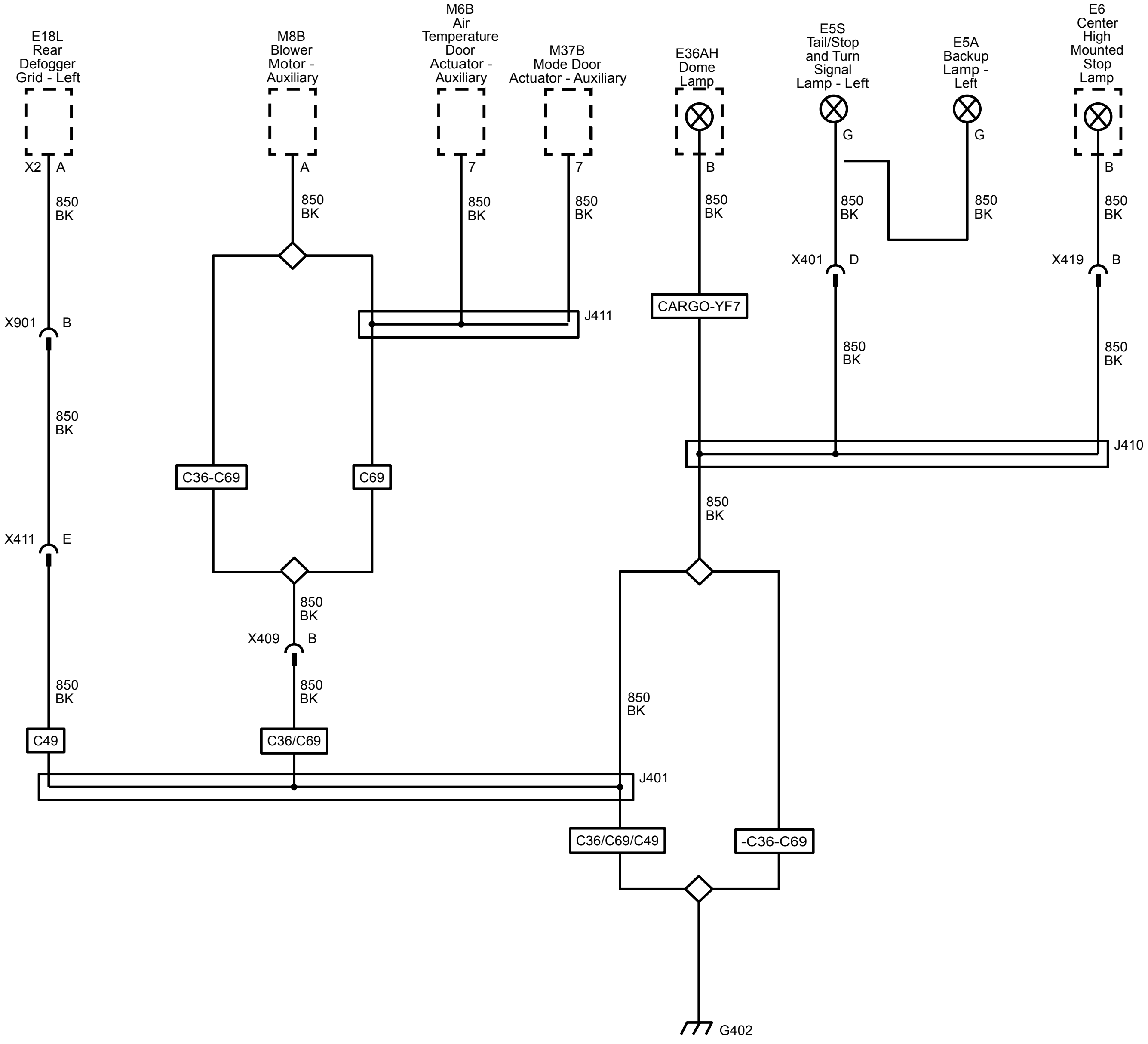
G350 and G400


K119
CNG
Control
Module
G12
Fuel
Pump
Q53
Fuel Cut-
Off
Solenoid
Valve
A7
Fuel Pump and
Level Sensor
Assembly
G7
Coolant Heater
Fuel Pump
E19
Coolant
Heater
E11
Fuel
Heater
G12
Fuel
Pump
P3
Backup
Alarm
G33
Reductant
Pump
E52
Reductant
Line Heater
E53
Reductant
Tank
Heater
X88
Trailer
Connector
BK
BK
B
B
A
1
A
2
1
A
A
B
X1
H
X2
A
BK
BK
150
BK
H
150
BK
150
BK
B
417
BK
317
BK
217
BK
22
WH
J430
BK
X305
B
X316
C
E
X395
A4
B4
C4
BK
150
BK
150
BK
J316
(Not Used)
X405
G
X350
A
X350
A
FHZ
FHZ
KO7+UFM
-FHZ
150
BK
150
BK
BK
150
BK
150
BK
150
BK
150
BK
X174
G
150
BK
150
BK
150
BK
150
BK
150
BK
150
BK
150
BK
150
BK
150
BK
150
BK
UY7 -LMF
K08
K08
LGH
8S3
LGH
LGH
LGH
UY7+8S3-LMF
J402
B212
Reductant
Sensor
Module
A32A
LPG Pump
Assembly -
Primary
A32B
LPG Pump
Assembly -
Secondary
150
BK
4
B
(CARGO+LGH)/
(UY7-LMF)/8S3
LMF+UY7-8S3
2
BK
BK
127
BK
J362
X395
A1
BK
(CARGO/PASSENGER
+L20/L96/LC8/LU3)-UY7
LGH
KO7+UFP
150
BK
G350
G400

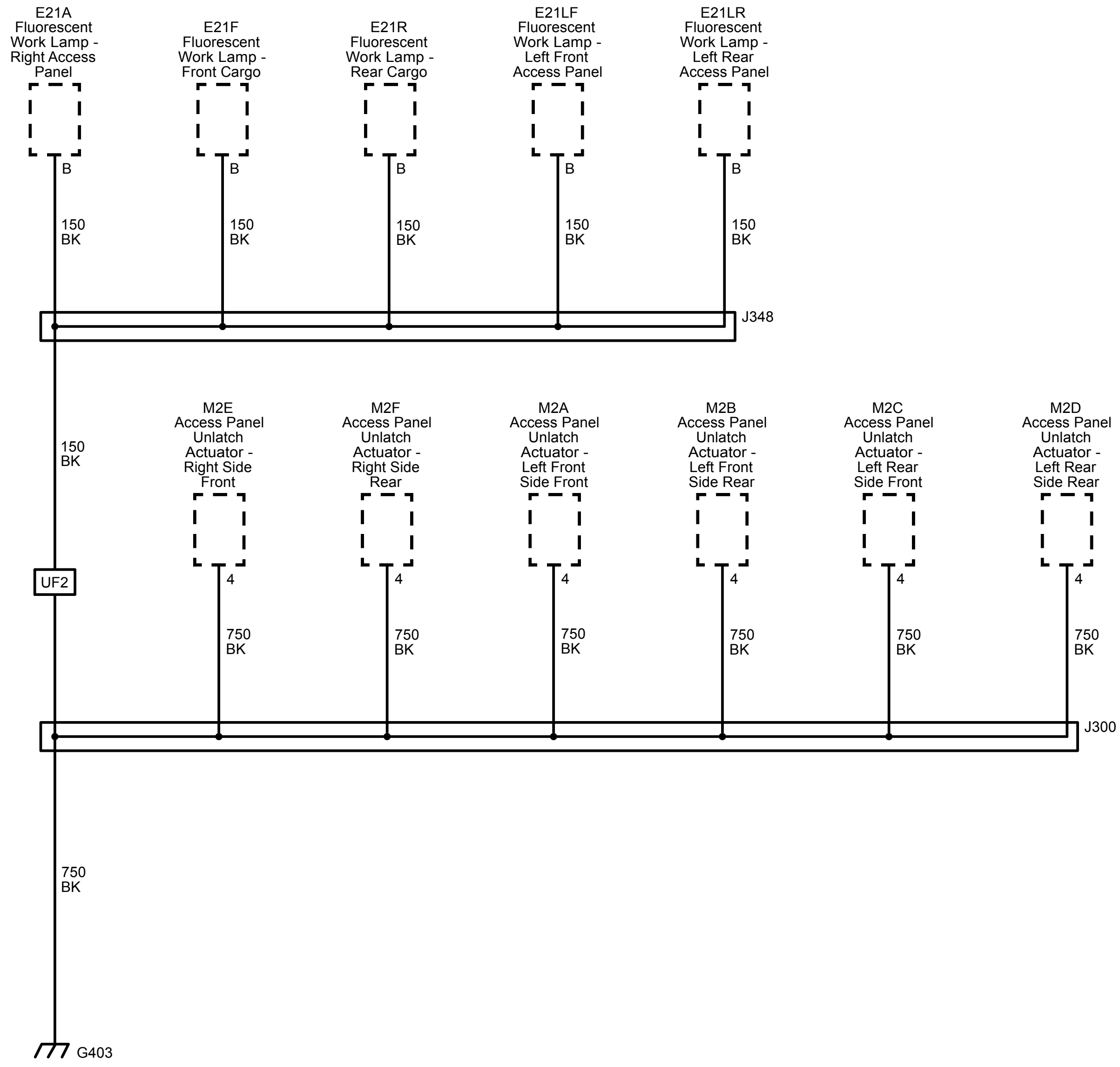
G401 (Passenger or Cargo)


M13
Door Latch
Assembly -
Rear Cargo
S13A
Door Lock
Switch -
Rear Cargo
E18R
Rear
Defogger
Grid -
Right
E7
License
Plate
Lamp
E5T
Tail/Stop
and Turn
Signal
Lamp -
Right
E5B
Backup
Lamp -
Right
E37M
Dome/Reading
Lamps - Middle
E36AH
Dome Lamp
E37R
Dome/
Reading
Lamps -
Rear
E36AH
Dome Lamp
S34R
HVAC Controls
Switch
Assembly -
Auxiliary Rear
X1 A
E
X2 A
B
G
G
B
B
B
1051
BK/WH
1051
BK/WH
850
BK
1050
BK
1050
BK
1050
BK
1050
BK
1050
BK
X902 B
J901
1050
BK
J902
1050
BK
X402 D
C69 +SWB
J330
-AU3
AU3
1050
BK
1050
BK
1050
BK
C49
-C49
1051
BK/WH
X420 H
X400 D
X412 C
1050
BK
1051
BK/WH
1050
BK
1050
BK
PASSENGER
J403
1050
BK
G401

G402 (Passenger or Cargo)

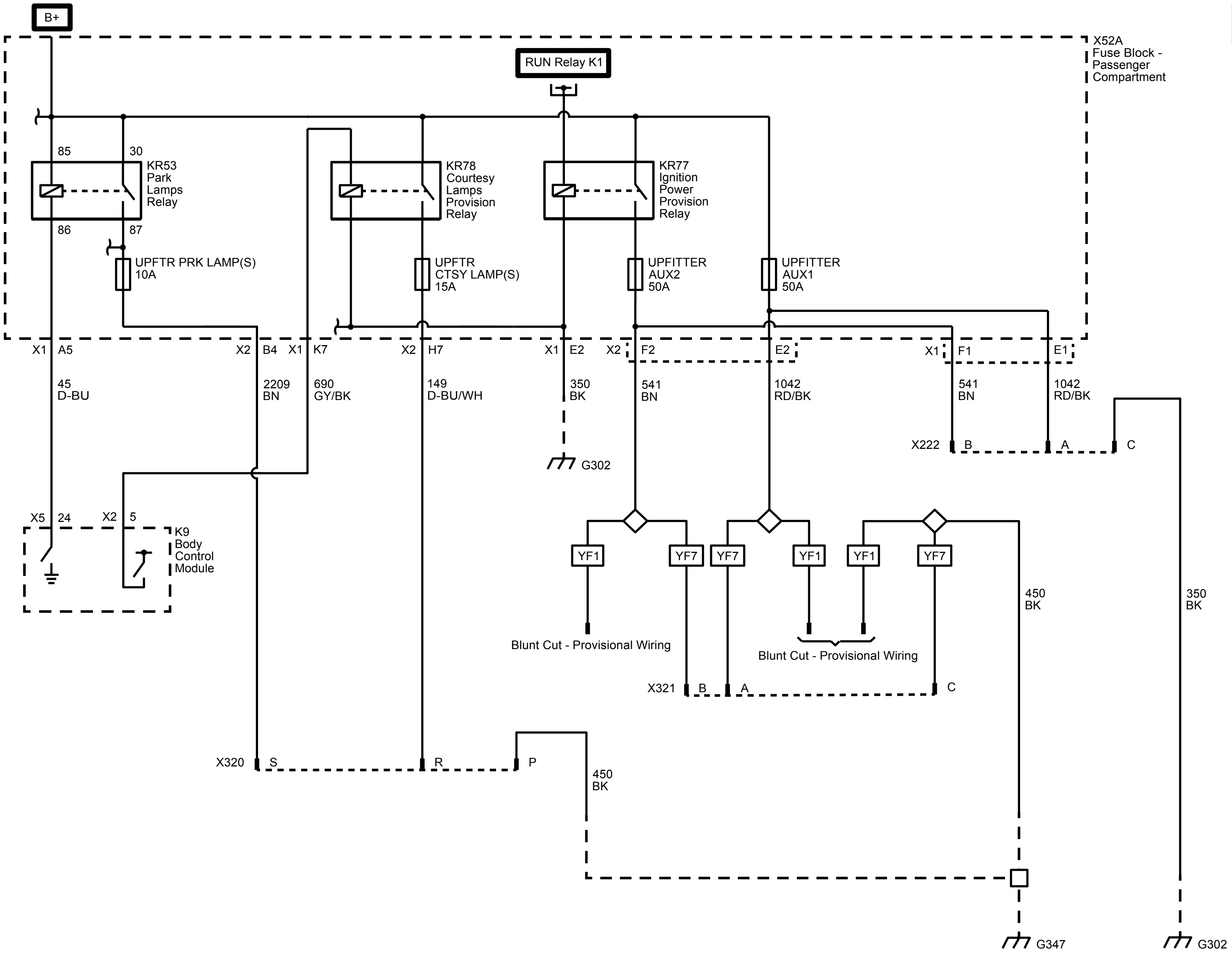

E18L
Rear
Defogger
Grid - Left
M8B
Blower
Motor -
Auxiliary
M6B
Air
Temperature
Door
Actuator -
Auxiliary
M37B
Mode Door
Actuator - Auxiliary
E36AH
Dome
Lamp
E5S
Tail/Stop
and Turn
Signal
Lamp - Left
E5A
Backup
Lamp -
Left
E6
Center
High
Mounted
Stop
Lamp
X2
A
B
7
G
850
BK
X901
X411
E
X409
X401
D
X419
J411
J410
J401
C36-C69
C69
CARGO-YF7
C49
C36/C69
C36/C69/C49
-C36-C69
G402

G403 (PRP)

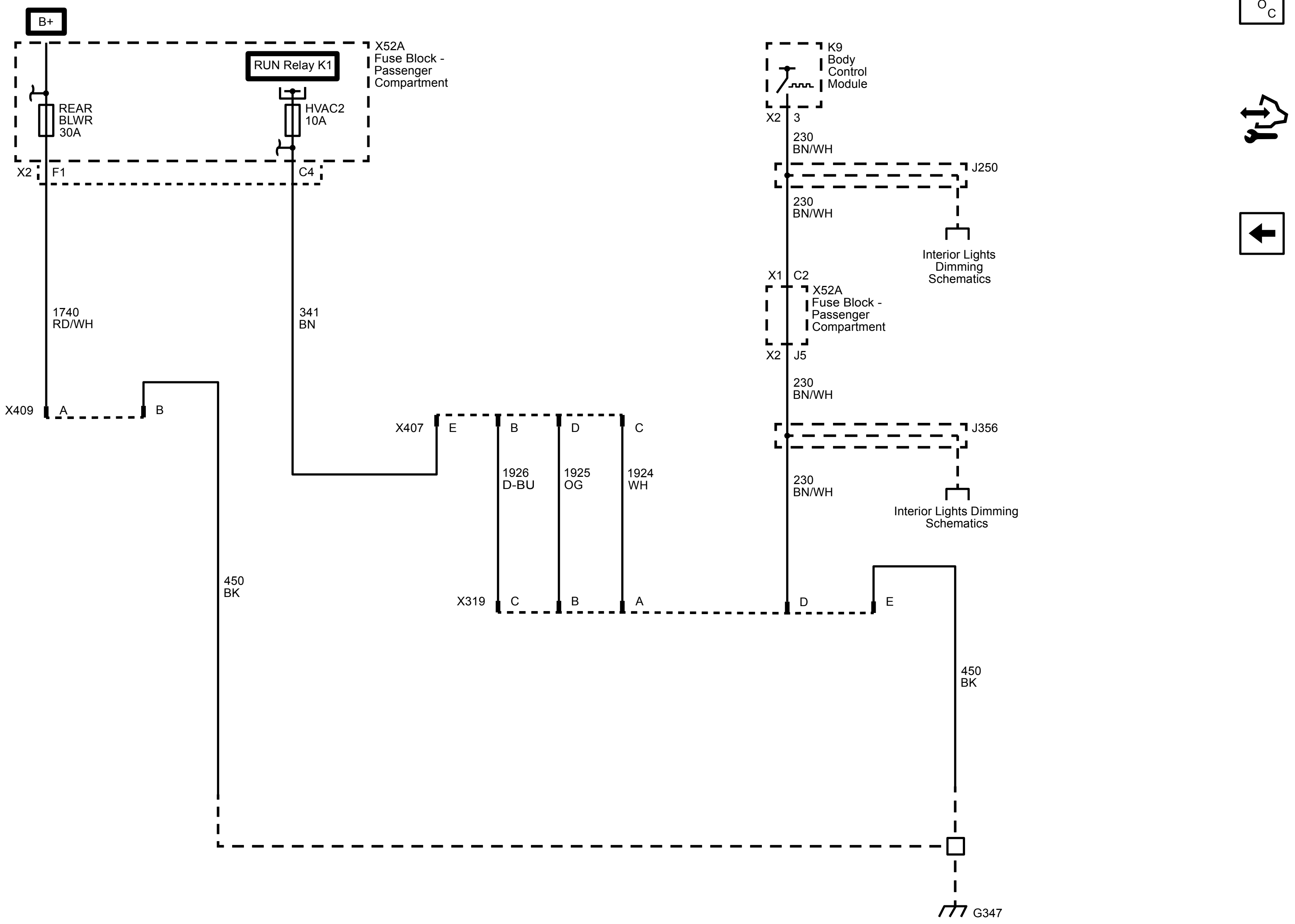

E21A Fluorescent Work Lamp - Right Access Panel
E21F Fluorescent Work Lamp - Front Cargo
E21R Fluorescent Work Lamp - Rear Cargo
E21LF Fluorescent Work Lamp - Left Front Access Panel
E21LR Fluorescent Work Lamp - Left Rear Access Panel
B
150 BK
J348
150 BK
M2E Access Panel Unlatch Actuator - Right Side Front
M2F Access Panel Unlatch Actuator - Right Side Rear
M2A Access Panel Unlatch Actuator - Left Front Side Front
M2B Access Panel Unlatch Actuator - Left Front Side Rear
M2C Access Panel Unlatch Actuator - Left Rear Side Front
M2D Access Panel Unlatch Actuator - Left Rear Side Rear
UF2
4
750 BK
J300
750 BK
G403

Upfitter Provision Schematics

Power, Ground and Relay Controls

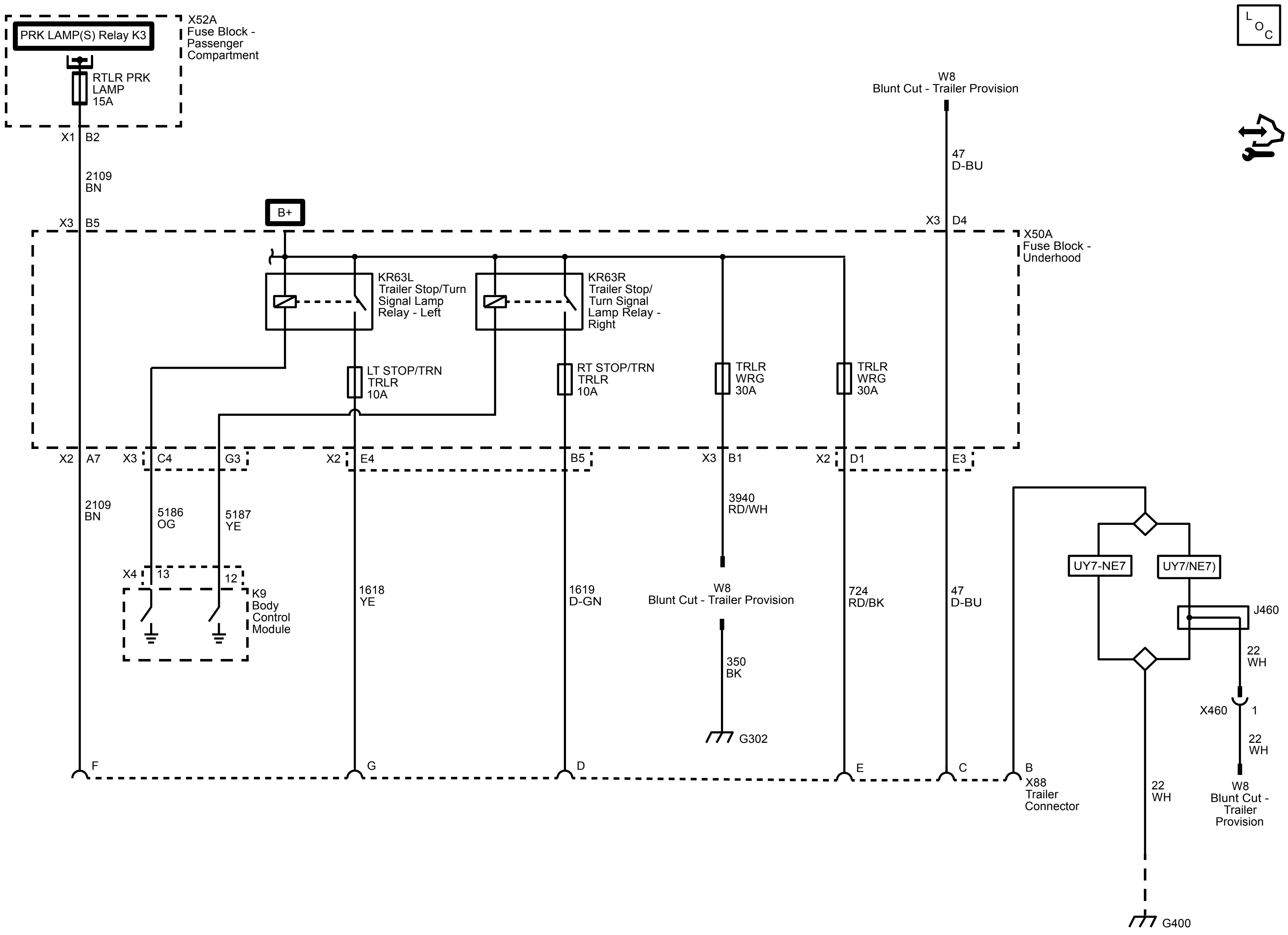

B+
RUN Relay K1
X52A
Fuse Block -
Passenger
Compartment
85
30
KR53
Park
Lamps
Relay
86
87
UPFTR PRK LAMP(S)
10A
KR78
Courtesy
Lamps
Provision
Relay
UPFTR
CTSY LAMP(S)
15A
KR77
Ignition
Power
Provision
Relay
UPFITTER
AUX2
50A
UPFITTER
AUX1
50A
X1 A5
X2 B4
X1 K7
X2 H7
X1 E2
X2 F2
E2
X1 F1
E1
45
D-BU
2209
BN
690
GY/BK
149
D-BU/WH
350
BK
541
BN
1042
RD/BK
541
BN
1042
RD/BK
G302
X222 B
A
C
X5 24
X2 5
K9
Body
Control
Module
YF1
YF7
YF7
YF1
YF1
YF7
Blunt Cut - Provisional Wiring
Blunt Cut - Provisional Wiring
X321 B
A
C
450
BK
350
BK
X320 S
R
P
450
BK
G347
G302

Rear Heat Auxiliary (ENC)


B+
X52A
Fuse Block -
Passenger
Compartment
RUN Relay K1
REAR
BLWR
30A
HVAC2
10A
X2
F1
C4
1740
RD/WH
341
BN
X409
A
B
450
BK
X407
E
B
D
C
1926
D-BU
1925
OG
1924
WH
X319
C
B
A
D
E
K9
Body
Control
Module
X2
3
230
BN/WH
J250
Interior Lights
Dimming
Schematics
X1
C2
X52A
Fuse Block -
Passenger
Compartment
X2
J5
J356
Interior Lights Dimming
Schematics
450
BK
G347
L O C

Trailer Connector/Provision Schematics

Trailer Connector/Provision


PRK LAMP(S) Relay K3
X52A
Fuse Block - Passenger Compartment
RTLR PRK LAMP 15A
X1 B2
2109 BN
L O C
W8
Blunt Cut - Trailer Provision
47 D-BU
B+
X3 B5
X3 D4
X50A
Fuse Block - Underhood
KR63L
Trailer Stop/Turn Signal Lamp Relay - Left
KR63R
Trailer Stop/ Turn Signal Lamp Relay - Right
LT STOP/TRN TRLR 10A
RT STOP/TRN TRLR 10A
TRLR WRG 30A
TRLR WRG 30A
X2 A7
X3 C4
G3
X2 E4
B5
X3 B1
X2 D1
E3
2109 BN
5186 OG
5187 YE
X4 13
12
K9
Body Control Module
1618 YE
1619 D-GN
3940 RD/WH
W8
Blunt Cut - Trailer Provision
350 BK
G302
724 RD/BK
47 D-BU
UY7-NE7
UY7/NE7)
J460
22 WH
X460 1
22 WH
W8
Blunt Cut - Trailer Provision
F
G
D
E
C
B
X88
Trailer Connector
22 WH
G400

Component Locator

Master Electrical Component List

Master Electrical Component List

Code	Name	Option	Location	Locator View	Connector End View
A10	Inside Rearview Mirror		In the passenger compartment, mounted at the top center of the windshield	—	*A10 Inside Rearview Mirror*
A11	Radio		In the center of the instrument panel	*Instrument Panel Components*	• *A11 Radio X1 (-UYS)* • *A11 Radio X2 (-UYS)* • *A11 Radio X1 (UYS)* • *A11 Radio X4 (UYS)*
A12	Digital Radio Receiver Control Module	U2K	In the passenger compartment, mounted on a bracket under driver knee bolster panel	*Under Steering Column Components*	*A12 Digital Radio Receiver Control Module (U2K)*
A23D	Door Latch Assembly - Driver		Attached to the driver door latch, in the driver door	*Driver Door*	• *A23D Door Latch Assembly - Driver X1* • *A23D Door Latch Assembly - Driver X2*
A23P	Door Latch Assembly - Passenger		Attached to the front passenger door latch, in the front passenger door	*Front Passenger Door*	• *A23P Door Latch Assembly - Passenger X1* • *S13P Door Lock Switch - Passenger X2*
A2LF	Tire Pressure Receiver - Left Front		Part of the left front tire valve stem, inside the rim	—	—
A2LR	Tire Pressure Receiver - Left Rear		Part of the left rear tire valve stem, inside the rim	—	—
A2RF	Tire Pressure Receiver - Right Front		Part of the right front tire valve stem, inside the rim	—	—
A2RR	Tire Pressure Receiver - Right Rear		Part of the right rear tire valve stem, inside the rim	—	—
A32A	LPG Pump Assembly - Primary	KO7 with UFP	Underneath vehicle, attached to front of primary fuel tank	—	*A32A LPG Pump Assembly - Primary (KO7 with UFP)*
A32B	LPG Pump Assembly - Secondary	KO7 with UFP	Underneath vehicle, attached to front of secondary fuel tank	—	*A32B LPG Pump Assembly - Secondary (KO7 with UFP)*
A39	Reductant Fluid Reservoir Assembly	LGH	Under the vehicle, above the reductant tank	—	—
A3L	Sunshade - Left	DH6 with YF7	On the upper left of the headliner	*Headliner*	*A3L Sunshade - Left (DH6 with YF7)*
A3R	Sunshade - Right	DH6	On the upper right of the headliner	*Headliner*	*A3R Sunshade - Right (DH6)*

A5	Driver Information Center		Left of the instrument cluster on the I/P	*Instrument Panel Components*	*A5 Driver Information Center*
A7	Fuel Pump and Level Sensor Assembly	LU3, L20, LMF or L96	In the vehicle underbody, in the fuel tank	• *Fuel Tank (NE7)* • *Fuel Tank (without NE7)*	*A7 Fuel Pump and Level Sensor Assembly (LU3, L20, LMF or L96)*
A9A	Outside Rearview Mirror - Driver	DE5 or DE7	Attached to the exterior of the left front door	*Driver Door*	*A9A Outside Rearview Mirror - Driver (DE5 or DE7)*
A9B	Outside Rearview Mirror - Passenger	DE5 or DE7	Attached to the exterior of the right front door	*Front Passenger Door*	*A9B Outside Rearview Mirror - Passenger (DE5 or DE7)*
A91	Mirror Display	UYS	Part of Inside Rearview Mirror assembly		
B1	A/C Refrigerant Pressure Sensor	C60	On the engine harness in the left rear side of the engine compartment	*Front of Engine Compartment*	• *B1 A/C Refrigerant Pressure Sensor* • *B1 A/C Refrigerant Pressure Sensor (C60 and Diesel)*
B10	Ambient Light Sensor		On the top of the instrument panel	*Instrument Panel Harness Components*	*B10 Ambient Light Sensor*
B12A	Transmission Fluid Pressure Sensor		Internal to the transmission	—	—
B107	Accelerator Pedal Position Sensor		Left lower side of the instrument panel, above the accelerator pedal	*Instrument Panel Harness Components*	*B107 Accelerator Pedal Position Sensor*
B112	Turbocharger Vane Position Sensor	LGH	In the engine compartment, mounted on the top of the turbocharger, between the front and rear turbocharger housings	*Left Front of Engine Components (LGH)*	*B112 Turbocharger Vane Position Sensor (LGH)*
B116	Water in Fuel Sensor	LGH	Under the vehicle, internally attached to the top of the fuel pump assembly	—	*B116 Water in Fuel Sensor (LGH)*
B119	Multi-axis Acceleration Sensor	JL4	In the passenger compartment, on the front center on the floor board between the front seats	*Front Left Side of Passenger Compartment*	*B119 Multi-axis Acceleration Sensor (JL4)*
B13	Transmission Fluid Temperature Sensor	M30	Internal to the transmission	*Automatic Transmission Internal Electronic Components (M30)*	—
B130A	Exhaust Gas Recirculation Temperature Sensor 1	LGH	In the engine compartment, on the top left rear side of the engine	*Left Front of Engine Components (LGH)*	*B130A Exhaust Gas Recirculation Temperature Sensor 1 (LGH)*
B130B	Exhaust Gas Recirculation Temperature Sensor 2	LGH	In the engine compartment, on the top right front side of the engine	*Right Front of Engine Components (LGH)*	*B130B Exhaust Gas Recirculation Temperature Sensor 2 (LGH)*

B131A	Exhaust Temperature Sensor 1	LGH	In the engine compartment, attached to the exhaust pipe, on the top left rear side of the engine	*Right Front of Engine Components (LGH)*	*B131A Exhaust Temperature Sensor 1 (LGH)*
B131B	Exhaust Temperature Sensor 2	LGH	Under the vehicle, attached to the exhaust pipe, near the rear of the catalytic converter	*Front of Exhaust System Components (LGH)*	*B131B Exhaust Temperature Sensor 2 (LGH)*
B131C	Exhaust Temperature Sensor 3	LGH	Under the vehicle, attached to the exhaust pipe, at the middle of the diesel particulate filter	*Front of Exhaust System Components (LGH)*	*B131C Exhaust Temperature Sensor 3 (LGH)*
B131D	Exhaust Temperature Sensor 4	LGH	Under the vehicle, attached to the exhaust pipe, near the rear of the diesel particulate filter	*Front of Exhaust System Components (LGH)*	*B131D Exhaust Temperature Sensor 4 (LGH)*
B132	Fuel Rail Temperature Sensor	LGH	In the engine compartment, top of the engine, mounted to the rear of the left fuel rail	*Left Front of Engine Components (LGH)*	—
B133	Brake Booster Fluid Flow Alarm Switch	UJ1	In the power steering outlet hose, near the power steering pump	*Brake Booster Fluid Alarm Switches (UJ1)*	• *B133 Brake Booster Fluid Flow Alarm Switch X1* • *B133 Brake Booster Fluid Flow Alarm Switch X2*
B134A	Coolant Heater Air Temperature Sensor	K08	Internal to the coolant heater assembly	*Coolant Heater (K08)*	—
B134B	Coolant Heater Combustion Sensor	K08	Internal to the coolant heater assembly	*Coolant Heater (K08)*	—
B134C	Coolant Heater Overheat Sensor	K08	Internal to the coolant heater assembly	*Coolant Heater (K08)*	—
B135	Coolant Heater Temperature Sensor	K08	Internal to the coolant heater assembly	*Coolant Heater (K08)*	—
B14A	Transmission Output Shaft Speed Sensor	M30	Right rear side of the transmission	*Automatic Transmission Internal Electronic Components (M30)*	*B14A Transmission Output Shaft Speed Sensor*
B14C	Transmission Input Shaft Speed Sensor	M30	Internal to the transmission	—	—
B15	Transmission Internal Mode Switch		Internal to the transmission	—	—
B150	Fuel Tank Pressure Sensor	LU3, L20, LMF or L96	Attached to the top of the fuel sender assembly	• *Fuel Tank (NE7)* • *Fuel Tank (without NE7)*	*B150 Fuel Tank Pressure Sensor (LC8, LMF, LU3, L20 or L96)*
B150	Fuel Tank Pressure Sensor	FHZ	In the vehicle underbody, left side, rear of b-pillar, inboard of left frame rail, forward of the CNG control module	—	*B150 Fuel Tank Pressure Sensor (FHZ)*
B150	Fuel Tank Pressure Sensor	LC8	In the vehicle underbody, left side middle	—	—

B153D	Seat Belt Buckle - Driver	—	Right side of the driver seat	*Driver Seat*	*B153D Seat Belt Buckle - Driver*
B153P	Seat Belt Buckle - Passenger	—	Left side of the front passenger seat	*Passenger Seat*	*B153P Seat Belt Buckle - Passenger*
B154	Diesel Particulate Filter Exhaust Differential Pressure Sensor	LGH	Under the vehicle, attached to the left upper frame, near the diesel particulate filter	*Front of Exhaust System Components (LGH)*	*B154 Diesel Particulate Filter Exhaust Differential Pressure Sensor (LGH)*
B18	Battery Current Sensor	LU3 or LMF	Part of the negative battery cable assembly, near the transmission control module (TCM)	—	*B18 Battery Current Sensor*
B193A	Charge Air Cooler Inlet Temperature Sensor	LGH	In the engine compartment, attached to the intake manifold, front of the turbocharger	*Left Front of Engine Components (LGH)*	*B193A Charge Air Cooler Inlet Temperature Sensor (LGH)*
B190	LPG Pressure and Temperature Sensor	KO7	—	—	—
B193B	Charge Air Cooler Outlet Temperature Sensor	LGH	On the top right front of the engine compartment, near the coolant surge tank	*Front of Engine Compartment Components (LGH)*	*B193B Charge Air Cooler Outlet Temperature Sensor (LGH)*
B194	Reductant Pressure Sensor	LGH	Under the vehicle, above the reductant tank	*Reductant Tank Components (LGH)*	*B194 Reductant Pressue Sensor (LGH)*
B195A	Nitrogen Oxides Sensor 1	LGH	Under the vehicle	—	*B195A Nitrogen Oxides Sensor 1 (LGH)*
B195B	Nitrogen Oxides Sensor 2	LGH	Under the vehicle	—	*B195B Nitrogen Oxides Sensor 2 (LGH)*
B198	Fuel Composition Sensor	—	Under the vehicle	—	—
B19A	Brake Booster Fluid Pressure Alarm Switch	UJ1	In the power steering inlet hose, near the power steering pump	*Brake Booster Fluid Alarm Switches (UJ1)*	*B19A Brake Booster Fluid Pressure Alarm Switch*
B1B	A/C Low Side Pressure Switch	C60	Right rear side of the engine compartment, on the side of the accumulator	*Front of Engine Compartment*	• *B1B A/C Low Side Pressure Switch* • *B1B A/C Low Pressure Switch (C60 and Diesel)*
B20	Brake Fluid Level Switch		Left rear of the engine compartment, attached to the left lower side of the brake fluid reservoir	*Engine Compartment*	*B20 Brake Fluid Level Switch*
B212	Reductant Sensor Module	LGH	Under the vehicle, above the reductant tank	*Reductant Tank Components (LGH)*	• *B212 Reductant Sensor Module (LGH) X1* • *B212 Reductant Sensor Module X2 (LGH)*
B215	Fuel Filter Pressure Switch	LGH	In the engine compartment, on the top left rear side of the engine	*Left Front of Engine Components (LGH)*	*B215 Fuel Filter Pressure Switch (LGH)*

B21C	Brake Pressure Differential Switch		Internal to the combination valve, near the front of the electronic brake control module (EBCM)	*Frame and Underbody*	*B21C Brake Pressure Differential Switch*
B22	Brake Pedal Position Sensor		Attached to brake pedal assembly	*Instrument Panel Harness Components*	*B22 Brake Pedal Position Sensor*
B203	Engine Coolant Radiator Temperature Sensor	—	—	—	—
B221	Alternative Fuel Tank Pressure Sensor	LC8	—	—	—
B229	Alternative Fuel Rail P Sensor	KO7 with UFM	In the engine compartment, top of the engine, mounted to the rear of the passenger fuel rail	—	*B229 Alternative Fuel Rail Pressure/Temperature Sensor (KO7 with UFM)*
B259	Exhaust Pressure Sensor	—	—	—	—
B23	Camshaft Position Sensor	LU3	Part of the distributor, top rear of the engine	—	*B23 Camshaft Position Sensor (LU3)*
B23	Camshaft Position Sensor	L20, LMF, L96 or LC8	Front of the engine between the water pump and the crank pulley	*Front of the Engine Components (LC8, LMF, L20, or L96)*	*B23 Camshaft Position Sensor (LC8, LMF, L20 or L96)*
B23	Camshaft Position Sensor	LGH	In the engine compartment, mounted to front engine cover above and to the right of the crankshaft	*Right Front of Engine Components (LGH)*	*B23 Camshaft Position Sensor (LGH)*
B24	Cellular Phone Microphone	UE1	In the passenger compartment, in the overhead console	—	*B24 Cellular Phone Microphone*
B26	Crankshaft Position Sensor	LU3	Attached to the lower right front of the engine, near the crankshaft in the timing cover	*Front of the Engine (LU3)*	*B26 Crankshaft Position Sensor (LU3)*
B26	Crankshaft Position Sensor	L20, LMF, L96 or LC8	Attached to the lower right rear side of the engine, behind the starter	*Right Side of the Engine Components (LC8, LMF, L20, or L96)*	*B26 Crankshaft Position Sensor (LC8, LMF, L20 or L96)*
B26	Crankshaft Position Sensor	LGH	Mounted to the front engine cover to the right of the crankshaft	*Right Front of Engine Components (LGH)*	*B26 Crankshaft Position Sensor (LGH)*
B28E	Door Ajar Switch - Left Sliding	E26	—	*Left Side Door (E26)*	—
B28F	Door Ajar Switch - Right Sliding	E24	—	*Right Side Door (E24)*	—
B28F	Door Ajar Switch - Right Sliding	YA2	—	*Right Sliding Door (YA2)*	—
B28LR	Door Ajar Switch - Left Rear	E26	Attached to the lower left rear B-pillar	*Left Side Door (E26)*	*B28LR Door Ajar Switch - Left Rear (E26)*

B28RR	Door Ajar Switch - Right Rear		Attached to the lower right rear B-pillar	• *Right Sliding Door (YA2)* • *Right Side Door (E24)*	*B28RR Door Ajar Switch - Right Rear*
B33	Engine Coolant Level Switch	LGH	Right front of the engine compartment, attached to the bottom of the coolant surge tank	*Front of Engine Compartment Components (LGH)*	*B33 Engine Coolant Level Switch (LGH)*
B34	Engine Coolant Temperature Sensor	LGH	In the engine compartment, on the top left side of the engine	*Top of the Engine Components (LGH)*	*B34 Engine Coolant Temperature Sensor (LGH)*
B34	Engine Coolant Temperature Sensor	LU3	On the left cylinder head between exhaust ports 3 and 5 (LU3)	*Left Rear of the Engine (LU3)*	—
B34	Engine Coolant Temperature Sensor	L20, LMF, L96 or LC8	On the left cylinder head at exhaust port 1	*Front of the Engine Components (LC8, LMF, L20, or L96)*	*B34 Engine Coolant Temperature Sensor (LC8, LMF, L20 or L96)*
B35	Engine Oil Level Switch	LGH	Attached to the left side of the oil pan	*Left Front of Engine Components (LGH)*	*B35 Engine Oil Level Switch (LGH)*
B37B	Engine Oil Pressure Sensor	LGH	In engine compartment, on the rear lower left side of the engine	*Left Front of Engine Components (LGH)*	*B37B Engine Oil Pressure Sensor (LGH)*
B37B	Engine Oil Pressure Sensor	LU3, L20, LMF, L96 or LC8	On the rear center of the engine	*Right Side of the Engine Components (LC8, LMF, L20, or L96)*	• *B37B Engine Oil Pressure Sensor (LU3)* • *B37B Engine Oil Pressure Sensor (LC8, LMF, L20 or L96)*
B46	Fuel Level Sensor	LGH	Under the vehicle, in the fuel tank	*Inside of Fuel Tank Components (LGH)*	*B46 Fuel Level Sensor (LGH)*
B46	Fuel Level Sensor	KO7 with UFM	Under the vehicle, mounted to fuel tank	—	*B46 Fuel Level Sensor (KO7 with UFM)*
B46A	Fuel Level Sensor - Primary	KO7 with UFP	Under the vehicle, in front of primary fuel tank	—	*B46A Fuel Level Sensor - Primary (KO7 with UFP)*
B46B	Fuel Level Sensor - Secondary	KO7 with UFP	Under the vehicle, in front of secondary fuel tank	—	*B46B Fuel Level Sensor - Secondary (KO7 with UFP)*
B47B	Fuel Rail Pressure Sensor	LMF	Near the fuel system control module	—	*B47B Fuel Rail Pressure Sensor (LMF)*
B47B	Fuel Rail Pressure Sensor	LGH	In the engine compartment, top of the engine, mounted to the rear of the right fuel rail	*Left Front of Engine Components (LGH)*	*B47B Fuel Rail Pressure Sensor (LGH)*
B48A	Fuel Temperature Sensor 1	LGH	In the engine compartment, top of the engine, mounted to the left side of the fuel injection pump	*Top of the Engine Components (LGH)*	*B48A Fuel Temperature Sensor 1 (LGH)*
B48B	Fuel Temperature Sensor 2	LGH	In the engine compartment, top of the engine, mounted to the rear of the left fuel rail	*Left Front of Engine Components (LGH)*	*B48B Fuel Temperature Sensor 2 (LGH)*

B52C	Heated Oxygen Sensor - Bank 1 Sensor 1	LU3, L20, LMF, L96 or LC8	Attached to the left front exhaust pipe, front of the catalytic converter	- *Rear of the Engine (LU3 or LMF)* - *Oxygen Sensors (LC8, L20, or L96)*	- *B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (Cutaway with LC8 or L96)* - *B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (Gas except Cutaway with LC8 or L96)*
B52D	Heated Oxygen Sensor - Bank 1 Sensor 2	LU3, L20, LMF, L96 or LC8	Attached to the left front exhaust pipe, back of the catalytic converter	- *Rear of the Engine (LU3 or LMF)* - *Oxygen Sensors (LC8, L20, or L96)*	- *B52D Heated Oxygen Sensor - Bank 1 Sensor 2* - *B52D Heated Oxygen Sensor - Bank 1 Sensor 2 (Cutaway with L20 or L96)*
B52E	Heated Oxygen Sensor - Bank 2 Sensor 1	LU3, L20, LMF, L96 or LC8	Attached to the right front exhaust pipe, front of the catalytic converter	- *Rear of the Engine (LU3 or LMF)* - *Oxygen Sensors (LC8, L20, or L96)*	- *B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (Cutaway with LC8 or L96)* - *B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (Gas except Cutaway with LC8 or L96)*
B52F	Heated Oxygen Sensor - Bank 2 Sensor 2	LU3, L20, LMF, L96 or LC8	Attached to the right front exhaust pipe, rear of the catalytic converter	- *Rear of the Engine (LU3 or LMF)* - *Oxygen Sensors (LC8, L20, or L96)*	- *B52F Heated Oxygen Sensor - Bank 2 Sensor 2* - *B52F Heated Oxygen Sensor - Bank 2 Sensor 2 (Cutaway with L20 or L96)*
B55	Hood Ajar Switch	BTV	In the center front of the engine compartment, attached to the hood latch assembly	—	*B55 Hood Ajar Switch (BTV)*
B56	Ignition Key In Switch		On the top of the ignition key cylinder in the steering column	*Upper Steering Column*	—
B59	Front Impact Sensor		On the lower center of the radiator support	*Front of Engine Compartment*	*B59 Front Impact Sensor*
B5LF	Wheel Speed Sensor - Left Front		At the left front wheel	- *Frame and Underbody* - *Front Wheel Speed Sensor Components (LGH)*	*B5LF Wheel Speed Sensor - Left Front*
B5LR	Wheel Speed Sensor - Left Rear	JL4	At the left rear wheel, attached to the backing plate	*Frame and Underbody*	*B5LR Wheel Speed Sensor - Left Rear (JL4)*
B5RF	Wheel Speed Sensor - Right Front		At the right front wheel	- *Frame and Underbody* - *Front Wheel Speed Sensor Components (LGH)*	*B5RF Wheel Speed Sensor - Right Front*
B5RR	Wheel Speed Sensor - Right Rear	JL4	At the right rear wheel, attached to the backing plate	*Frame and Underbody*	*B5RR Wheel Speed Sensor - Right Rear (JL4)*
B60	Passenger Presence Detection Sensor	Light Duty without YF7	On the passenger seat harness near the take out for the seat adjuster switch	*Passenger Seat*	*B60 Passenger Presence Sensor (Light Duty without YF7)*

B62D	Seat Position Sensor - Driver		Below the driver seat, on the seat track	*Driver Seat*	*B62D Seat Position Sensor - Driver (Light Duty)*
B62P	Seat Position Sensor - Passenger		Below the front passenger seat, on the seat track	*Passenger Seat*	*B62P Seat Position Sensor - Passenger (Light Duty)*
B63LF	Side Impact Sensor - Left Front	ASF	In the left front side door	*Driver Door*	*B63LF Side Impact Sensor - Left Front (ASF)*
B63LR	Side Impact Sensor - Left Rear	Passenger with ASF without E26	In the left center of the vehicle behind the body panel trim	*Left Rear Cargo Area (Passenger or Cargo)*	*B63LR Side Impact Sensor - Left Rear (Passenger with ASF)*
B63RF	Side Impact Sensor - Right Front	ASF	In the right front side door	*Front Passenger Door*	*B63RF Side Impact Sensor - Right Front (ASF)*
B63RR	Side Impact Sensor - Right Rear	Passenger with ASF and E24	In the lower right side of the vehicle near the rear side door	*Right Rear Frame Rail (Passenger with E24)*	*B63RR Side Impact Sensor - Right Rear (Passenger with ASF with E24)*
B63RR	Side Impact Sensor - Right Rear	Passenger with ASF and YA2	In the lower right side of the vehicle near the rear side door	*Right Rear Frame Rail (Passenger with YA2)*	*B63RR Side Impact Sensor - Right Rear (Passenger with ASF with YA2)*
B64	Rollover Sensor		In the front center on the floor board between the front seats	*Front Left Side of Passenger Compartment*	*B64 Rollover Sensor (ASF)*
B68	Knock Sensor		—	*Lower Right of the Engine (LU3)*	—
B68A	B68A Knock Sensor 1		—	*Right Side of the Engine Components (LC8, LMF, L20, or L96)*	*B68A Knock Sensor 1 (LC8, LMF, LU3, L20 or L96)*
B68B	B68B Knock Sensor 2		—	*Front of the Engine Components (LC8, LMF, L20, or L96)*	*B68B Knock Sensor 2 (LC8, LMF, LU3, L20 or L96)*
B74	Manifold Absolute Pressure Sensor	LGH	In the engine compartment, attached to the intake manifold tube, between the engine and the air cooler outlet duct	*Right Front of Engine Components (LGH)*	*B74 Manifold Absolute Pressure Sensor (LGH)*
B74	Manifold Absolute Pressure Sensor	LC8, LMF, LU3, L20, L96	In the engine compartment, attached to the intake manifold, on top of the engine	• *Right Side of the Engine (LU3)* • *Front of the Engine Components (LC8, LMF, L20, or L96)*	*B74 Manifold Absolute Pressure Sensor (LC8, LMF, LU3, L20 or L96)*
B75	Mass Air Flow Sensor	LGH	Attached to the air intake duct, front of the engine compartment	—	—
B75B	Mass Air Flow/Intake Air Temperature Sensor	LU3, L20, LMF, L96 or LC8	Attached to the air intake duct, front of the engine compartment	—	*B75B Mass Air Flow/Intake Air Temperature Sensor (LC8, LMF, LU3, L20 or L96)*
B75B	Mass Air Flow/Intake Air Temperature Sensor	LGH	In the engine compartment, attached to the air intake duct	*Engine Components (LGH)*	*B75B Mass Air Flow/Intake Air Temperature Sensor (LGH)*

B75C	Multifunction Intake Air Sensor		Right front of the engine compartment, mounted in the air cleaner duct	—	*B75C Multifunction Intake Air Sensor*
B78E	Rear Object Sensor - Left Middle	UD7	Left side of the bumper cover	—	*B78E Rear Object Sensor - Left Middle (UD7)*
B78F	Rear Object Sensor - Right Middle	UD7	Right side of the bumper cover	—	*B78F Rear Object Sensor - Right Middle (UD7)*
B78G	Rear Object Sensor - Left Outer	UD7	Left rear corner of the bumper cover	—	*B78G Rear Object Sensor - Left Outer (UD7)*
B78H	Rear Object Sensor - Right Outer	UD7	Right rear corner of the bumper cover	—	*B78H Rear Object Sensor - Right Outer(UD7)*
B80	Park Brake Switch		Left lower side of the instrument panel on the brake pedal assembly	*Instrument Panel Harness Components*	*B80 Park Brake Switch*
B81	Park/Neutral Position Switch	M30	Internal to the transmission	—	—
B87	Rearview Camera	UVC	On the right rear cargo door, in license plate trim	—	*B87 Rearview Camera (UVC)*
B88D	Seat Belt Switch - Driver	—	Right side of the driver seat, inside Seat Belt Buckle — Driver	*Driver Seat*	*B153D Seat Belt Buckle - Driver*
B88P	Seat Belt Switch - Passenger	—	Left side of the front passenger seat, inside Seat Belt Buckle — Passenger	*Passenger Seat*	*B153P Seat Belt Buckle - Passenger*
B9	Ambient Air Temperature Sensor	UFA	Attached to the front center of the radiator support	*Ambient Air Temperature Sensor (UFA)*	*B9 Ambient Air Temperature Sensor*
B99	Steering Wheel Angle Sensor	JL4	Attached the lower steering column jacket assembly	*Steering Column Harness Routing*	*B99 Steering Wheel Angle Sensor (JL4)*
B103	Stop Lamp Switch		—	—	*B103 Stop Lamp Switch*
C1	Battery		At the right front side of the engine compartment	• *Front of Engine Compartment Components (LGH)* • *Engine Compartment*	• *C1 Battery* • *C1B Battery - Auxiliary*
C1B	Battery - Auxiliary	LGH	Left frame rail, center of the vehicle	*Left Side Frame (LMM or LGH)*	—
E11	Fuel Heater	LGH	Under the vehicle, internally attached to the top of the fuel pump assembly	—	*E11 Fuel Heater (LGH)*
E12A	Glow Plug 1	LGH	Attached to the side of the right cylinder head, above the #1 cylinder	*Right Front of Engine Components (LGH)*	*E12A Glow Plug 1 (LGH)*
E12B	Glow Plug 2	LGH	Attached to the side of the left cylinder head, above the #2 cylinder	*Right Front of Engine Components (LGH)*	*E12B Glow Plug 2 (LGH)*

E12C	Glow Plug 3	LGH	Attached to the side of the right cylinder head, above the #3 cylinder	*Right Front of Engine Components (LGH)*	*E12C Glow Plug 3 (LGH)*
E12D	Glow Plug 4	LGH	Attached to the side of the left cylinder head, above the #4 cylinder	*Right Front of Engine Components (LGH)*	*E12D Glow Plug 4 (LGH)*
E12E	Glow Plug 5	LGH	Attached to the side of the right cylinder head, above the #5 cylinder	*Right Front of Engine Components (LGH)*	*E12E Glow Plug 5 (LGH)*
E12F	Glow Plug 6	LGH	Attached to the side of the left cylinder head, above the #6 cylinder	*Right Front of Engine Components (LGH)*	*E12F Glow Plug 6 (LGH)*
E12G	Glow Plug 7	LGH	Attached to the side of the right cylinder head, above #7 cylinder	*Right Front of Engine Components (LGH)*	*E12G Glow Plug 7 (LGH)*
E12H	Glow Plug 8	LGH	Attached to the side of the left cylinder head, above the #8 cylinder	*Right Front of Engine Components (LGH)*	*E12H Glow Plug 8 (LGH)*
E13L	Headlamp - Left		At the left front of the vehicle	*Front Exterior Lighting (Base)*	*E13L Headlamp - Left (Sealed)*
E13R	Headlamp - Right		At the right front of the vehicle	*Front Exterior Lighting (Base)*	*E13R Headlamp - Right (Sealed)*
E18L	Rear Defogger Grid - Left	C49	Attached to the left cargo door window	*Rear Doors (Passenger or Cargo)*	• *E18L Rear Defogger Grid - Left (C49)* • *E18L Rear Defogger Grid - Left X1 (C49 with A12)* • *E18L Rear Defogger Grid - Left X2 (C49 with A12)*
E18R	Rear Defogger Grid - Right	C49	Attached to the right cargo door window	*Rear Doors (Passenger or Cargo)*	• *E18R Rear Defogger Grid - Right (C49 with A18)* • *E18R Rear Defogger Grid - Right X1 (C49 with A12)* • *E18R Rear Defogger Grid - Right X2 (C49 with A12)*
E19	Coolant Heater	K08	Attached to the left front inner frame rail	*Left Side Frame (LMM or LGH)*	*E19 Coolant Heater (K08)*
E20	Coolant Heater Glow Plug	K08	Internal to the coolant heater assembly	*Coolant Heater (K08)*	—
E21A	Fluorescent Work Lamp - Right Access Panel	PRP	—	—	—
E21F	Fluorescent Work Lamp - Front Cargo	PRP	—	—	—
E21LF	Fluorescent Work Lamp - Left Front Access Panel	PRP	—	—	—

E21LR	Fluorescent Work Lamp - Left Rear Access Panel	PRP	—	—	—
E21R	Fluorescent Work Lamp - Rear Cargo	PRP	—	—	—
E22	Underhood Lamp	—	In the engine compartment, attached to the left inner hood panel	*Underhood Lamp*	*E22 Underhood Lamp*
E24	Intake Air Heater	LGH	In the engine compartment, between the intake manifold tube and the air cooler outlet duct	*Left Front of Engine Components (LGH)*	• *E24 Intake Air Heater X1 (LGH)* • *E24 Intake Air Heater X2 (LGH)*
E2LF	Side Marker Lamp - Left Front	—	In the left front corner of the vehicle	• *Front Exterior Lighting (Base)* • *Front Exterior Lighting (Uplevel)*	*E2LF Side Marker Lamp - Left Front*
E2RF	Side Marker Lamp - Right Front	—	In the right front corner of the vehicle	• *Front Exterior Lighting (Base)* • *Front Exterior Lighting (Uplevel)*	*E2RF Side Marker Lamp - Right Front*
E31L	Sunshade Mirror Lamp - Left	DH6 with YF7	On the upper left of the headliner, inside the Sunshade — Left	*Headliner*	*A3L Sunshade - Left (DH6 with YF7)*
E31R	Sunshade Mirror Lamp - Right	DH6	On the upper right of the headliner, in the Sunshade — Right	*Headliner*	*A3R Sunshade - Right (DH6)*
E32	Cigarette Lighter Receptacle	—	—	*Instrument Panel Components*	—
E36AH	Dome Lamp	Cargo	In the rear of the roof panel	*Headliner*	*E36AH Dome Lamp (Cargo)*
E37F	Dome/Reading Lamps - Front		In the front of the roof panel	*Headliner*	*E37F Dome/Reading Lamps - Front*
E37M	Dome/Reading Lamps - Middle		In the center of the roof panel	*Headliner*	*E37M Dome/Reading Lamps - Middle*
E37R	Dome/Reading Lamps - Rear		In the rear of the roof panel	*Headliner*	*E37R Dome/Reading Lamps - Rear*
E4E	Headlamp - Left High Beam		At the left front of the vehicle	*Front Exterior Lighting (Uplevel)*	*E4E Headlamp - Left High Beam (Composite)*
E4F	Headlamp - Right High Beam		At the right front of the vehicle	*Front Exterior Lighting (Uplevel)*	*E4F Headlamp - Right High Beam (Composite)*
E4G	Headlamp - Left Low Beam		At the left front of the vehicle	*Front Exterior Lighting (Uplevel)*	*E4G Headlamp - Left Low Beam (Composite)*
E4H	Headlamp - Right Low Beam		At the right front of the vehicle	*Front Exterior Lighting (Uplevel)*	*E4H Headlamp - Right Low Beam (Composite)*

E4N	Park/Turn Signal Lamp - Left		In the left front corner of the vehicle	• *Front Exterior Lighting (Base)* • *Front Exterior Lighting (Uplevel)*	*E4N Park/Turn Signal Lamp - Left*
E4P	Park/Turn Signal Lamp - Right		In the right front corner of the vehicle	• *Front Exterior Lighting (Base)* • *Front Exterior Lighting (Uplevel)*	*E4P Park/Turn Signal Lamp - Right*
E52	Reductant Line Heater	LGH	Under the vehicle, above the reductant tank	*Reductant Tank Components (LGH)*	*E52 Reductant Line Heater (LGH)*
E53	Reductant Tank Heater	LGH	Under the vehicle, inside the reductant tank	*Reductant Tank Components (LGH)*	*E53 Reductant Tank Heater (LGH)*
E5A	Backup Lamp - Left		Attached to the left tail lamp assembly	*Rear Exterior Lights (Passenger or Cargo)*	*E5A Backup Lamp - Left*
E5B	Backup Lamp - Right		Attached to the right tail lamp assembly	*Rear Exterior Lights (Passenger or Cargo)*	*E5B Backup Lamp - Right*
E5S	Tail/Brake and Turn Signal Lamp - Left		Attached to the left tail lamp assembly, upper bulb	*Rear Exterior Lights (Passenger or Cargo)*	*E5S Tail/Stop and Turn Signal Lamp - Left (Passenger or Cargo)*
E5T	Tail/Brake and Turn Signal Lamp - Right		Attached to the right tail lamp assembly, upper bulb	*Rear Exterior Lights (Passenger or Cargo)*	*E5T Tail/Stop and Turn Signal Lamp - Right (Passenger or Cargo)*
E6	Center High Mounted Stop Lamp		At the top rear center of the vehicle	*Rear Exterior Lights (Passenger or Cargo)*	*E6 Center High Mounted Stop Lamp (Passenger or Cargo)*
E7	License Plate Lamp		Attached to the outer right cargo door, above the license plate mount	*Rear Exterior Lights (Passenger or Cargo)*	*E7 License Plate Lamp (Passenger or Cargo)*
F101	Passenger Instrument Panel Air Bag		Right side of the instrument panel	*Instrument Panel Harness Components*	• *F101 Passenger Instrument Panel Air Bag (Heavy Duty)* • *F101 Passenger Instrument Panel Air Bag (Light Duty)*
F104A	Fusible Link 1	—	—	—	—
F104B	Fusible Link 2	—	—	—	—
F104C	Fusible Link 3	—	—	—	—
F104D	Fusible Link 4	—	—	—	—
F104E	Fusible Link 5	—	—	—	—
F105LF	Roof Rail Air Bag - Left Front	ASF	Behind the left side of the headliner trim	*Front Left Side of Passenger Compartment*	*F105LF Roof Rail Air Bag - Left Front (ASF)*
F105RF	Roof Rail Air Bag - Right Front	ASF	Behind the Right side of the headliner trim	*Front Left Side of Passenger Compartment*	*F105RF Roof Rail Air Bag - Right Front (ASF)*

F105RR	Roof Rail Air Bag - Right Rear	ASF with YA2	Behind the right rear side of the headliner trim	*Front Left Side of Passenger Compartment*	*F105RR Roof Rail Air Bag - Right Rear (ASF with YA2)*
F107	Steering Wheel Air Bag		Attached to the center of the steering wheel	*Upper Steering Column*	• *F107 Steering Wheel Air Bag X1 (Light Duty)* • *F107 Steering Wheel Air Bag X2 (Light Duty)* • *F107 Steering Wheel Air Bag (Heavy Duty)*
F109D	Seat Belt Buckle Pretensioner - Driver		Part of the seat belt buckle	*Driver Seat*	*F109D Seat Belt Buckle Pretensioner - Driver (Light Duty)*
F109P	Seat Belt Buckle Pretensioner - Passenger		Part of the seat belt buckle	*Passenger Seat*	*F109P Seat Belt Buckle Pretensioner - Passenger (Light Duty)*
G1	A/C Compressor	LGH	—	*Front of Engine Compartment*	—
G10	Cooling Fan Motor	LGH	In the engine compartment, attached to the water pump pulley	*Front of Engine Compartment Components (LGH)*	*G10 Cooling Fan Motor (LGH)*
G12	Fuel Pump	LGH	Under the vehicle, internally attached to the middle of the fuel pump assembly	*Left Side Frame (LMM or LGH)*	*G12 Fuel Pump (LGH)*
G12	Fuel Pump	KO7 with UFM	Under the vehicle, mounted to fuel tank	—	*G12 Fuel Pump (KO7 with UFM)*
G13	Generator		Attached to the right front of the engine	• *Front of the Engine Components (LC8, LMF, L20, or L96)* • *Left Front of Engine Components (LGH)*	• *G13 Generator X1 (LU3 or LMF)* • *G13 Generator X1 (LC8, LGH, L20 or L96)* • *G13 Generator X2*
G13E	Generator - Auxiliary	KD9 with YF2	Attached to the left front of the engine	*Right Front of Engine Components (LGH)*	• *G13E Generator - Auxiliary X1 (KD9 with YF2)* • *G13E Generator - Auxiliary X2 (KD9 with YF2)*
G24	Windshield Washer Pump		Attached to the windshield washer fluid reservoir in the right front of the engine compartment	*Front of Engine Compartment*	*G24 Windshield Washer Pump*
G25	LPG Tank Scavange Pump	KO7 with UFP	Underneath vehicle, attached to front of primary fuel tank	—	*A32A LPG Pump Assembly - Primary (KO7 with UFP)*
G32A	Fuel Pump - Primary	KO7 with UFP	Underneath vehicle, attached to front of primary fuel tank	—	*A32A LPG Pump Assembly - Primary (KO7 with UFP)*
G32B	Fuel Pump - Secondary	KO7 with UFP	Underneath vehicle, attached to front of secondary fuel tank	—	*A32B LPG Pump Assembly - Secondary (KO7 with UFP)*

G33	Reductant Pump	LGH	Under the vehicle, above the reductant tank	*Reductant Tank Components (LGH)*	*G33 Reductant Pump (LGH)*
G34	Evaporative Emission System Leak Detection Pump	LGH	In the right front lower side of the engine compartment, below the battery	*Front of Engine Compartment Components (LGH)*	*G34 Evaporative Emission System Leak Detection Pump (LGH)*
G34	Evaporative Emission System Leak Detection Pump	KO7 with UFM	Underneath the vehicle, inside the LPG Evaporative Emissions (EVAP) box	—	*G34 Evaporative Emission System Leak Detection Pump (KO7 with UFM)*
G7	Coolant Heater Fuel Pump	K08	Attached to the left inner frame rail, near the fuel pump assembly	*Left Side Frame (LMM or LGH)*	—
K10	Coolant Heater Control Module	K08	Internal to the coolant heater assembly	*Coolant Heater (K08)*	—
K103	Fuel Injector Control Module	KO7 with UFP	Underneath vehicle, attached to tank control box, on driver's side frame rail	—	*K103 Fuel Injector Control Module (KO7 with UFP)*
		KO7 with UFM	In the passenger compartment, mounted on a bracket under driver knee bolster panel, above interior engine cover	—	*K103 Fuel Injector Control Module (KO7 with UFM)*
K119	CNG Control Module	FHZ	In the vehicle underbody, left side, forward of the left rear spring, mounted to inboard side of left frame rail	—	• *K119 CNG Control Module X1* • *K119 CNG Control Module X2* • *K119 CNG Control Module X3*
K17	Electronic Brake Control Module		Attached to the left frame rail, near the center of the vehicle	*Frame and Underbody*	• *K17 Electronic Brake Control Module (JL4)* • *K17 Electronic Brake Control Module (without JL4)*
K18	Compass Module	U80	In the front of the headliner	*Headliner*	*K18 Compass Module (U80)*

K20	Engine Control Module	ECM	At the left front side of the engine compartment, near the underhood fuse block on the inner left front fender	• *Engine Compartment* • *Engine Components (LGH)*	• *K20 Engine Control Module X1 (LU3)* • *K20 Engine Control Module X1 (LC8, LMF, L20 or L96)* • *K20 Engine Control Module X1 (LGH)* • *K20 Engine Control Module X2 (LU3)* • *K20 Engine Control Module X2 (LC8, LMF, L20 or L96)* • *K20 Engine Control Module X2 (LGH)* • *K20 Engine Control Module X3 (LGH)*
K33A	HVAC Control Module - Auxiliary	—	—	*Headliner*	—
K34	Glow Plug Control Module	LGH	Left rear of the engine, above the rocker cover to the left of the turbocharger	*Left Front of Engine Components (LGH)*	• *K34 Glow Plug Control Module X1 (LGH)* • *K34 Glow Plug Control Module X2 (LGH)*
K35	Ignition Coil Module	LU3	On the top right side of the engine	*Right Side of the Engine (LU3)*	*K35 Ignition Coil Module (LU3)*
K36	Inflatable Restraint Sensing and Diagnostic Module	SDM	Below the driver seat under the carpet on the floor board	*Front Left Side of Passenger Compartment*	*K36 Inflatable Restraint Sensing and Diagnostic Module*
K38	Chassis Control Module	LMF	At the rear of the vehicle, attached to the left rear frame rail	*Left Rear Frame Rail (LMF)*	*K38 Chassis Control Module (LMF)*
K41R	Rear Parking Assist Control Module	UD7	In the passenger compartment, under instrument panel upper trim panel, center of dash	—	• *K41R Rear Parking Assist Control Module X1 (UD7)* • *K41R Rear Parking Assist Control Module X2 (UD7)*
K64	Content Theft Deterrent Control Module		In the steering column around the ignition key cylinder housing	*Upper Steering Column*	*K64 Content Theft Deterrent Control Module*
K71	Transmission Control Module	M30	Attached to the right inner fender, near the A/C-Heater case	*Engine Compartment*	*K71 Transmission Control Module(M30)*
K73	Telematics Communication Interface Control Module	UE1	In the passenger compartment, mounted on a bracket under driver knee bolster panel	*Under Steering Column Components*	• *K73 Telematics Communication Interface Control Module X1 (UE1)* • *K73 Telematics Communication Interface Control Module X2 (UE1)* • *K73 Telematics Communication Interface Control Module X3 (UE1)*

K77	Remote Control Door Lock Receiver	AU0	Attached to the upper left side of the instrument panel carrier, above the instrument panel cluster (IPC)	*Instrument Panel Harness Components*	*K77 Remote Control Door Lock Receiver (AU0)*
K9	Body Control Module		Lower right side of the instrument panel behind the knee bolster	*Instrument Panel Harness Components*	• *K9 Body Control Module X1* • *K9 Body Control Module X2* • *K9 Body Control Module X3* • *K9 Body Control Module X4* • *K9 Body Control Module X5* • *K9 Body Control Module X6* • *K9 Body Control Module X7*
KR143	Wait to Start Indicator Relay	KO7 with UFM	In the engine compartment, beside brake booster, tied to engine harness	—	*KR143 Wait to Start Indicator Relay*
KR152	LPG Bypass Solenoid Valve Relay	KO7 with UFM	Underneath the vehicle, mounted to the side of the EVAP vacuum pump housing box, towards the center of the vehicle, facing the driveshaft	—	*KR152 LPG Bypass Solenoid Valve Relay (KO7 with UFM)*
KR23A	Fuel Pump Relay	KO7 with UFP	Under the vehicle, mounted in front of the fuel tank, inside the tank control box	—	*KR23C Fuel Pump Relay - Primary (KO7 with UFP)*
KR23B	Fuel Pump Relay - Secondary	KO7 with UFP	Under the vehicle, mounted in front of the fuel tank, inside the tank control box	—	*KR23B Fuel Pump Relay - Secondary (KO7 with UFP)*
KR32B	Blower Motor High Speed Relay - Auxiliary	C36 with C69	In the left rear of the passenger compartment, attached to the auxiliary HVAC module	*Left Rear Cargo Area (Passenger or Cargo)*	*KR32B Blower Motor High Speed Relay - Auxiliary*
KR32C	Blower Motor Low Speed Relay - Auxiliary	C36 with C69	In the left rear of the passenger compartment, attached to the auxiliary HVAC module	*Left Rear Cargo Area (Passenger or Cargo)*	*KR32C Blower Motor Low Speed Relay - Auxiliary*
KR32D	Blower Motor Medium Speed Relay - Auxiliary	C36 with C69	In the left rear of the passenger compartment, attached to the auxiliary HVAC module	*Left Rear Cargo Area (Passenger or Cargo)*	*KR32D Blower Motor Medium Speed Relay - Auxiliary*
M2A	Access Panel Unlatch Actuator - Left Front Side Front	PRP	—	—	—
M2B	Access Panel Unlatch Actuator - Left Front Side Rear	PRP	—	—	—

M2C	Access Panel Unlatch Actuator - Left Rear Side Front	PRP	—	—	—
M2D	Access Panel Unlatch Actuator - Left Rear Side Rear	PRP	—	—	—
M2E	Access Panel Unlatch Actuator - Right Side Front	PRP	—	—	—
M2F	Access Panel Unlatch Actuator - Right Side Rear	PRP	—	—	—
M11	Coolant Heater Blower Motor	K08	Internal to the coolant heater assembly	*Coolant Heater (K08)*	—
M13	Door Latch Assembly - Rear Cargo		Attached to the right cargo door latch, in the right cargo door	*Rear Doors (Passenger or Cargo)*	• *M13 Door Latch Assembly - Rear Cargo X1* • *M13 Door Latch Assembly - Rear Cargo X2*
M14E	Door Lock Actuator - Left Sliding	E26	—	*Left Side Door (E26)*	—
M14F	Door Lock Actuator - Right Sliding	E24	—	*Right Side Door (E24)*	—
M14F	Door Lock Actuator - Right Sliding	YA2	—	*Right Sliding Door (YA2)*	—
M14LR	Door Lock Actuator - Left Rear	E26 with AU3	Attached to the left rear door latch, in the left rear door	*Left Side Door (E26)*	*M14LR Door Lock Actuator - Left Rear (E26 with AU3)*
M14RR	Door Lock Actuator - Right Rear	Passenger or Cargo with AU3	Attached to the right rear door latch, in the right rear door	• *Right Sliding Door (YA2)* • *Right Side Door (E24)*	• *M14RR Door Lock Actuator - Right Rear (E24 with AU3)* • *M14RR Door Lock Actuator - Right Rear (YA2 with AU3)*
M37B	Mode Door Actuator - Auxiliary	C69	In the left rear of the passenger compartment, attached to the auxiliary HVAC module	*Left Rear Cargo Area (Passenger or Cargo)*	*M37B Mode Door Actuator - Auxiliary (C69)*
M49D	Seat Motor Assembly - Driver	AG1	Below the left front seat, attached to the seat frame	*Driver Seat*	*M49D Seat Motor Assembly - Driver (AG1)*
M49P	Seat Motor Assembly - Passenger	AG2	Below the right front seat, attached to the seat frame	*Passenger Seat*	*M49P Seat Motor Assembly - Passenger (AG2)*
M6	Air Temperature Door Actuator		Lower right side of the instrument panel, attached to the HVAC module	*Air Temperature Actuator*	*M6 Air Temperature Door Actuator*

M64	Starter Motor		Attached to the lower right rear of the engine	• *Right Side of the Engine (LC8, LMF, L20, or L96)* • *Right Front of Engine Components (LGH)*	• *M64 Starter Motor X1 (LC8, LMF, LU3, L20 or L96)* • *M64 Starter Motor X1 (LGH)* • *M64 Starter Motor X2 (LC8, LMF, LU3, L20 or L96)* • *M64 Starter Motor X2 (LGH)*
M6B	Air Temperature Door Actuator - Auxiliary	C69	In the left rear of the passenger compartment, attached to the auxiliary HVAC module	*Left Rear Cargo Area (Passenger or Cargo)*	*M6B Air Temperature Door Actuator - Auxiliary*
M7	Transmission Shift Lock Control Solenoid Actuator		Attached to the right side of the steering column	—	*M7 Transmission Shift Lock Control Solenoid Actuator*
M74D	Window Motor - Driver	A31	Attached to the interior of the left front door	*Driver Door*	*M74D Window Motor - Driver (A31)*
M74P	Window Motor - Passenger	A31	Attached to the interior of the right front door	*Front Passenger Door*	*M74P Window Motor - Passenger (A31)*
M75	Windshield Wiper Motor		In the left side of the cowl, near the engine compartment	*Front of Engine Compartment*	*M75 Windshield Wiper Motor*
M8	Blower Motor		Right rear of the engine compartment, attached to the evaporator case	*Engine Compartment*	• *M8 Blower Motor* • *M8 Blower Motor (Diesel)*
M8B	Blower Motor - Auxiliary	C36 with C69	In the left rear of the passenger compartment, attached to the auxiliary HVAC module	*Left Rear Cargo Area (Passenger or Cargo)*	*M8B Blower Motor - Auxiliary*
M9	Driver Information Center Display	—	Attached to the left side of the instrument panel, inside the Instrument Cluster	*Instrument Panel Components*	*P16 Instrument Cluster*
M83D	Easy Entry Seat Motor - Driver		—	*Driver Seat*	—
M83P	Easy Entry Seat Motor - Passenger		—	*Passenger Seat*	—
P3	Backup Alarm	8S3	In the rear of the vehicle on the frame	—	*P3 Backup Alarm*
P5	Chime Alarm Control Module	UL5	In the center of the instrument panel behind the radio	*Instrument Panel Harness Components*	*P5 Chime Alarm Control Module*
P9	Driver Information Center Display	—	Attached to the left side of the instrument panel, inside the Instrument Cluster	—	—

P13	Horn Assembly		In the left front engine compartment behind the left headlamp	*Front of Engine Compartment*	• *P13 Horn Assembly* • *P13 Horn Assembly (Diesel)*
P14	Passenger Air Bag Disable Indicator	Light Duty without YF7	In the center of the instrument panel	*Instrument Panel Components*	*S40 Passenger Air Bag Disable Switch (C99)*
P16	Instrument Cluster	—	Attached to the left side of the instrument panel	*Instrument Panel Components*	*P16 Instrument Cluster*
P19AG	Speaker - Left Front Door	—	Attached to the left front door	*Driver Door*	*P19AG Speaker - Left Front Door*
P19AH	Speaker - Right Front Door		Attached to the right front door	*Front Passenger Door*	*P19AH Speaker - Right Front Door*
P19AN	Speaker - Left Rear Trim Panel		In the left rear headliner of the vehicle	*Rear Doors (Passenger or Cargo)*	*P19AN Speaker - Left Rear Trim Panel (Passenger or Cargo)*
P19AP	Speaker - Right Rear Trim Panel		In the right rear upper headliner of the vehicle	*Rear Doors (Passenger or Cargo)*	*P19AP Speaker - Right Rear Trim Panel (Passenger or Cargo)*
P19F	Speaker - Left Rear Cargo Door	US8	Attached to the left cargo door	*Rear Doors (Passenger or Cargo)*	*P19F Speaker - Left Rear Cargo Door (US8)*
P19T	Speaker - Right Rear Cargo Door	US8	Attached to the right cargo door	*Rear Doors (Passenger or Cargo)*	*P19T Speaker - Right Rear Cargo Door (US8)*
P44	Wait to Start Indicator	KO7 with UFP	In the passenger compartment, attached to the instrument panel, left of steering column, under DIC controls	—	*P44 Wait to Start Indicator*
Q12	Evaporative Emission Purge Solenoid Valve	LU3, L20, LMF, L96 or LC8	On the top of the engine, rear of the throttle body	• *Right Side of the Engine (LU3)* • *Front of the Engine Components (LC8, LMF, L20, or L96)*	*Q12 Evaporative Emission Purge Solenoid Valve (LC8, LMF, LU3 L20 or L96)*
Q13	Evaporative Emission Vent Solenoid Valve	LU3, L20, LMF or L96	Attached to the side of the EVAP canister, front of the fuel tank	—	*Q13 Evaporative Emission Vent Solenoid Valve (LC8, LMF, LU3, L20 or L96)*
Q13	Evaporative Emission Vent Solenoid Valve	LC8	In the vehicle underbody, left side middle	—	*Q13 Evaporative Emission Vent Solenoid Valve (LC8, LMF, LU3, L20 or L96)*
Q14	Exhaust Gas Recirculation Valve	LGH	In the engine compartment, on the top right of the engine	*Right Front of Engine Components (LGH)*	*Q67 Exhaust After treatment Fuel Injector (LGH)*
Q17A	Fuel Injector 1	LU3	Inside the intake manifold at cylinder 1	—	*Q17A Fuel Injector 1 (LU3)*

Q17A	Fuel Injector 1	LC8, LMF, L20, or L96	On the left side of the intake manifold, at the #1 cylinder intake port	*Upper Left Side of the Engine (LC8, LMF, L20, or L96)*	• *Q17A Fuel Injector 1 (LC8 with FHZ)* • *Q17A Fuel Injector 1 (LC8 with KO7 and UFM)* • *Q17A Fuel Injector 1 (LMF, L20 or L96)*
Q17A	Fuel Injector 1	LGH	Near the right side engine rocker cover above the #1 cylinder	*Right Front of Engine Components (LGH)*	*Q17A Fuel Injector 1 (LGH)*
Q17B	Fuel Injector 2	LU3	Inside the intake manifold at cylinder 2	—	*Q17B Fuel Injector 2 (LU3)*
Q17B	Fuel Injector 2	LC8 with FHZ, LMF, L20, or L96	On the right side of the intake manifold, at the #2 cylinder intake port	*Upper Right Side of the Engine (LC8, LMF, L20, or L96)*	• *Q17B Fuel Injector 2 (LC8 with FHZ)* • *Q17B Fuel Injector 2 (LC8 with KO7 and UFM)* • *Q17B Fuel Injector 2 (LMF, L20 or L96)*
Q17B	Fuel Injector 2	LGH	Near the left side engine rocker cover above the #2 cylinder	*Left Front of Engine Components (LGH)*	*Q17B Fuel Injector 2 (LGH)*
Q17C	Fuel Injector 3	LU3	Inside the intake manifold at cylinder 3	—	*Q17C Fuel Injector 3 (LU3)*
Q17C	Fuel Injector 3	LC8 with FHZ, LMF, L20, or L96	On the left side of the intake manifold, at the #3 cylinder intake port	*Upper Left Side of the Engine (LC8, LMF, L20, or L96)*	• *Q17C Fuel Injector 3 (LC8 with FHZ)* • *Q17C Fuel Injector 3 (LC8 with KO7 and UFM)* • *Q17C Fuel Injector 3 (LMF, L20 or L96)*
Q17C	Fuel Injector 3	LGH	Near the right side engine rocker cover above the #3 cylinder	*Right Front of Engine Components (LGH)*	*Q17C Fuel Injector 3 (LGH)*
Q17D	Fuel Injector 4	LU3	Inside the intake manifold at cylinder 4	—	*Q17D Fuel Injector 4 (LU3)*
Q17D	Fuel Injector 4	LC8 with FHZ, LMF, L20, or L96	On the right side of the intake manifold, at the #4 cylinder intake port	*Upper Right Side of the Engine (LC8, LMF, L20, or L96)*	• *Q17D Fuel Injector 4 (LC8 with FHZ)* • *Q17D Fuel Injector 4 (LC8 with KO7 and UFM)* • *Q17D Fuel Injector 4 (LMF, L20 or L96)*
Q17D	Fuel Injector 4	LGH	Near the left side engine rocker cover above the #4 cylinder	*Left Front of Engine Components (LGH)*	*Q17D Fuel Injector 4 (LGH)*
Q17E	Fuel Injector 5	LU3	Inside the intake manifold at cylinder 5	—	*Q17E Fuel Injector 5 (LU3)*

Q17E	Fuel Injector 5	LC8 with FHZ, LMF, L20, or L96	On the left side of the intake manifold, at the #5 cylinder intake port	*Upper Left Side of the Engine (LC8, LMF, L20, or L96)*	• *Q17E Fuel Injector 5 (LC8 with FHZ)* • *Q17E Fuel Injector 5 (LC8 with KO7 and UFM)* • *Q17E Fuel Injector 5 (LMF, L20 or L96)*
Q17E	Fuel Injector 5	LGH	Near the right side engine rocker cover above the #5 cylinder	*Right Front of Engine Components (LGH)*	*Q17E Fuel Injector 5 (LGH)*
Q17F	Fuel Injector 6	LU3	Inside the intake manifold at cylinder 6	—	*Q17F Fuel Injector 6 (LU3)*
Q17F	Fuel Injector 6	LC8 with FHZ, LMF, L20, or L96	On the right side of the intake manifold, at the #6 cylinder intake port	*Upper Right Side of the Engine (LC8, LMF, L20, or L96)*	• *Q17F Fuel Injector 6 (LC8 with FHZ)* • *Q17F Fuel Injector 6 (LC8 with KO7 and UFM)* • *Q17F Fuel Injector 6 (LMF, L20 or L96)*
Q17F	Fuel Injector 6	LGH	Near the left side engine rocker cover above the #6 cylinder	*Left Front of Engine Components (LGH)*	*Q17F Fuel Injector 6 (LGH)*
Q17G	Fuel Injector 7	LC8 with FHZ, LMF, L20, or L96	On the left side of the intake manifold, at the #7 cylinder intake port	*Upper Left Side of the Engine (LC8, LMF, L20, or L96)*	• *Q17G Fuel Injector 7 (LC8 with FHZ)* • *Q17G Fuel Injector 7 (LC8 with KO7 and UFM)* • *Q17G Fuel Injector 7 (LMF, L20 or L96)*
Q17G	Fuel Injector 7	LGH	Near the right side engine rocker cover above the #7 cylinder	*Right Front of Engine Components (LGH)*	*Q17G Fuel Injector 7 (LGH)*
Q17H	Fuel Injector 8	LC8 with FHZ, LMF, L20, or L96	On the right side of the intake manifold, at the #8 cylinder intake port	*Upper Right Side of the Engine (LC8, LMF, L20, or L96)*	• *Q17H Fuel Injector 8 (LC8 with FHZ)* • *Q17H Fuel Injector 8 (LC8 with KO7 and UFM)* • *Q17H Fuel Injector 8 (LMF, L20 or L96)*
Q17H	Fuel Injector 8	LGH	Near the left side engine rocker cover above the #8 cylinder	*Left Front of Engine Components (LGH)*	*Q17H Fuel Injector 8 (LGH)*
Q18A	Fuel Pressure Regulator 1	LGH	In the engine compartment, mounted on top of the fuel injection pump	*Top of the Engine Components (LGH)*	*Q18A Fuel Pressure Regulator 1 (LGH)*
Q18B	Fuel Pressure Regulator 2	LGH	In the engine compartment, mounted to the front of the left fuel rail	*Top of the Engine Components (LGH)*	*Q18B Fuel Pressure Regulator 2 (LGH)*
Q1A	1-2 Shift Solenoid Valve	M30	Internal to the transmission	*Automatic Transmission Internal Electronic Components (M30)*	*Q1A 1-2 Shift Solenoid Valve*

Q1B	2-3 Shift Solenoid Valve	M30	Internal to the transmission	*Automatic Transmission Internal Electronic Components (M30)*	*Q1B 2-3 Shift Solenoid Valve*
Q2	A/C Compressor Clutch	C60 with LU3	On the front of the A/C compressor upper left front of engine	*Front of Engine Compartment*	*Q2 A/C Compressor Clutch*
Q2	A/C Compressor Clutch	C60 with L20, LMF, L96 or LC8	On the front of the A/C compressor lower right front of engine	*Front of Engine Compartment*	*Q2 A/C Compressor Clutch*
Q2	A/C Compressor Clutch	C60 with LGH	On the front of the A/C compressor upper left front of engine	*Front of Engine Compartment*	*Q2 A/C Compressor Clutch (C60 and Diesel)*
Q20	Intake Air Flow Valve	—	—	—	*Q20 Intake Air Flow Valve (LGH)*
Q27	Pressure Control Solenoid Valve	M30	Internal to the transmission	*Automatic Transmission Internal Electronic Components (M30)*	—
Q27A	Pressure Control Solenoid Valve 1	—	Internal to the transmission	*Automatic Transmission Internal Electronic Components (M30)*	—
Q27B	Pressure Control Solenoid Valve 2	—	Internal to the transmission	*Automatic Transmission Internal Electronic Components (M30)*	—
Q27C	Pressure Control Solenoid Valve 3	—	Internal to the transmission	*Automatic Transmission Internal Electronic Components (M30)*	—
Q27D	Pressure Control Solenoid Valve 4	—	Internal to the transmission	*Automatic Transmission Internal Electronic Components (M30)*	—
Q27E	Pressure Control Solenoid Valve 5	—	Internal to the transmission	*Automatic Transmission Internal Electronic Components (M30)*	—
Q38	Throttle Body	LU3, L20, LMF, L96 or LC8	Attached to the center front of the intake manifold	*Front of the Engine Components (LC8, LMF, L20, or L96)*	*Q38 Throttle Body (LC8, LMF, LU3, L20 or L96)*
Q39A	Torque Converter Clutch Pressure Control Solenoid Valve	M30	Internal to the transmission	*Automatic Transmission Internal Electronic Components (M30)*	—
Q39B	Torque Converter Clutch Enable Solenoid Valve	M30	Internal to the transmission	*Automatic Transmission Internal Electronic Components (M30)*	—
Q41	Turbocharger Vane Position Control Solenoid Valve	LGH	In the engine compartment, mounted on the right side of the turbocharger, between the front and rear turbocharger housings	*Right Front of Engine Components (LGH)*	*Q41 Turbocharger Vane Position Control Solenoid Valve (LGH)*
Q53	Fuel Cut-Off Solenoid Valve	KO7 with UFM	Under the vehicle, attached to fuel tank	—	*Q53 Fuel Cut-Off Solenoid Valve (KO7 with UFM)*

Q58F	LPG Cut-Off Solenoid Valve - Front	KO7 with UFM	Underneath vehicle, attached to front of primary fuel tank, internal to the LPG Pump Assembly — Primary	—	*A32A LPG Pump Assembly - Primary (KO7 with UFP)*
Q58R	LPG Cut-Off Solenoid Valve - Rear	KO7 with UFM	Underneath vehicle, attached to front of primary fuel tank, internal to the LPG Pump Assembly — Secondary	—	*A32B LPG Pump Assembly - Secondary (KO7 with UFP)*
Q6	Camshaft Position Actuator Solenoid Valve	L96 or LC8	Front of the engine behind the center of the water pump	*Left Front Side of the Engine Components (LC8, LMF, L20, or L96)*	*Q6 Camshaft Position Actuator Solenoid Valve (LC8 or L96)*
Q61	Reductant Injector	LGH	Under the vehicle, attached to the exhaust pipe, near the rear of the catalytic converter	*Front of Exhaust System Components (LGH)*	*Q61 Reductant Injector (LGH)*
Q62	Reductant Purge Solenoid Valve	LGH	Under the vehicle, above the reductant tank	*Reductant Tank Components (LGH)*	*Q62 Reductant Purge Solenoid Valve (LGH)*
Q67	Exhaust Aftertreatment Fuel Injector	LGH	In the engine compartment, on the right rear side of the engine	*Right Front of Engine Components (LGH)*	*Q67 Exhaust After treatment Fuel Injector (LGH)*
Q68A	CNG Cut-Off Solenoid Valve 1	FHZ	In the vehicle underbody, on front of CNG tank, inboard side of left frame rail, near EBCM	—	*Q68A CNG Cut-Off Solenoid Valve 1*
Q68B	CNG Cut-Off Solenoid Valve 2	FHZ	In the vehicle underbody, on left side of CNG tank, rear of axle between frame rails, forward tank	—	*Q68B CNG Cut-Off Solenoid Valve 2*
Q68C	CNG Cut-Off Solenoid Valve 3	FHZ	In the vehicle underbody, on left side of CNG tank, rear of axle between frame rails, rearmost tank	—	*Q68C CNG Cut-Off Solenoid Valve 3*
Q68D	CNG Cut-Off Solenoid Valve 4	FHZ with UFP	In the left rear of the cargo compartment, on rear of CNG tank	—	*Q68D CNG Cut-Off Solenoid Valve 4*
Q68D	CNG Cut-Off Solenoid Valve 4	FHZ without UFP	In the vehicle underbody, near CNG tank, rear of axle between frame rails	—	—
Q68E	CNG Cut-Off Solenoid Valve 5	FHZ	In the vehicle underbody, left side, forward of left rear spring, above left frame rail	—	*Q68E CNG Cut-Off Solenoid Valve 5*
Q69	CNG High Pressure Regulator Solenoid Valve	FHZ	In the vehicle underbody, left side, rear of b-pillar, inboard of left frame rail, forward of CNG control module, near EBCM	—	*Q69 CNG High Pressure Regulator Solenoid Valve*
Q7	Fuel Injector Fuel Meter Body	LU3	Attached to the lower side of the intake manifold	*Right Side of the Engine (LU3)*	*Q7 Fuel Injector Fuel Meter Body X7 (LU3)*

Q71	LPG Bypass Solenoid Valve	KO7 with UFM	Underneath vehicle, attached to front of primary fuel tank, internal to the LPG Pump Assembly — Primary	—	*A32A LPG Pump Assembly - Primary (KO7 with UFP)*
Q72	LPG Bypass Solenoid Valve	KO7 with UFM	Underneath the vehicle, attached to fuel tank	—	*Q72 LPG Bypass Solenoid Valve (KO7 with UFM)*
Q8	Control Solenoid Valve Assembly	MYD	Inside the automatic transmission	*Automatic Transmission Internal Electronic Components (MYD)*	• *Q8 Control Solenoid Valve Assembly X1 (MYD)* • *Q8 Control Solenoid Valve Assembly X1 (MYD with Diesel)* • *Q8 Control Solenoid Valve Assembly X2 (MYD)* • *Q8 Control Solenoid Valve Assembly X3 (MYD)*
R3	Blower Motor Resistor		Right rear of the engine compartment, attached to the evaporator case	*Engine Compartment*	• *R3 Blower Motor Resistor* • *R3 Blower Motor Resistor (Diesel)*
R3B	Blower Motor Resistor - Auxiliary	C36 with C69	In the left rear of the passenger compartment, attached to the auxiliary HVAC module	*Left Rear Cargo Area (Passenger or Cargo)*	*R3B Blower Motor Resistor - Auxiliary*
R6A	Terminating Resistor — High Speed Bus	—	—	—	—
S2	Transmission Manual Shift Switch	—			
S13A	Door Lock Switch - Rear Cargo	Passenger or Cargo with AU3	Attached to the right cargo door accessory mount plate	*Rear Doors (Passenger or Cargo)*	*S13A Door Lock Switch - Rear Cargo (Passenger or Cargo with AU3)*
S13D	Door Lock Switch - Driver	AU3	Attached to the left front door accessory mount plate	*Driver Door*	*S13D Door Lock Switch - Driver (AU3)*
S13P	Door Lock Switch - Passenger	AU3	Attached to the right front door accessory mount plate	*Front Passenger Door*	*S13P Door Lock Switch - Passenger (AU3)*
S16	Driver Information Center Switch	—			
S26	Hazard Lamps Switch		On the top of the steering column, part of the turn signal/multifunction switch	*Upper Steering Column*	—
S30	Headlamp Switch		At the left side of the instrument panel	*Instrument Panel Components*	*S30 Headlamp Switch*
S33	Horn Switch		Inside the upper steering column, behind the inflatable restraint steering wheel module	*Upper Steering Column*	• *S33 Horn Switch X1* • *S33 Horn Switch X2*

S34	HVAC Controls Switch Assembly		In the center of the instrument panel	*Instrument Panel Components*	• *S34 HVAC Controls Switch Assembly X1* • *S34 HVAC Controls Switch Assembly X2* • *S34 HVAC Controls Switch Assembly X3* • *S34 HVAC Controls Switch Assembly X4 (C60)*
S34F	HVAC Controls Switch Assembly - Auxiliary Front	C69	On the front of the overhead console	*Headliner*	• *S34F HVAC Controls Switch Assembly - Auxiliary Front (C69 without Rear Auxiliary Controls)* • *S34F HVAC Controls Switch Assembly - Auxiliary Front (C69 with Rear Auxiliary Controls)*
S34R	HVAC Controls Switch Assembly - Auxiliary Rear	C69 with Rear Auxiliary Controls	In the headliner, near the center of the vehicle	*Headliner*	*S34R HVAC Controls Switch Assembly - Auxiliary Rear (C69 with Rear Auxiliary Controls)*
S36	Instrument Panel Dimmer Switch	—	—	—	—
S39	Ignition Switch		On the right side of the steering column	*Upper Steering Column*	*S39 Ignition Switch*
S40	Passenger Air Bag Disable Switch	C99	In the center of the instrument panel	*Instrument Panel Components*	*S40 Passenger Air Bag Disable Switch (C99)*
S51	Telematics Button Assembly	UE1	In the passenger compartment, in the center of instrument cluster	—	*S51 Telematics Button Assembly (UE1)*
S52	Outside Rearview Mirror Switch	DE5 or DE7	Attached to the left front door accessory mount plate	*Driver Door*	*S52 Outside Rearview Mirror Switch (DE5 or DE7)*
S64D	Seat Adjuster Switch - Driver	AG1	Attached to the front panel of the driver seat	*Driver Seat*	*S64D Seat Adjuster Switch - Driver (AG1)*
S64P	Seat Adjuster Switch - Passenger	AG2	Attached to the front panel of the front passenger seat	*Passenger Seat*	*S64P Seat Adjuster Switch - Passenger (AG2)*
S70L	Steering Wheel Controls Switch - Left	K34	On the left steering wheel spoke	*Instrument Panel Components*	*S70L Steering Wheel Controls Switch - Left (K34)*
S70R	Steering Wheel Controls Switch - Right	W1Y	On the right steering wheel spoke	*Instrument Panel Components*	*S70R Steering Wheel Controls Switch - Right (W1Y)*
S74	Tow/Haul Mode Switch		In the center of the instrument panel	*Instrument Panel Components*	*S74 Tow/Haul Mode Switch*
S75	Traction Control Switch	JL4	In the center of the instrument panel	*Instrument Panel Components*	*S75 Traction Control Switch (JL4)*

S78	Turn Signal/Multi-Function Switch		On the left side of the steering column	*Upper Steering Column*	• *S78 Turn Signal/Multifunction Switch X1* • *S78 Turn Signal/Multifunction Switch X2* • *S78 Turn Signal/Multifunction Switch X3*
S79D	Window Switch - Driver	A31	Attached to the left front door accessory mount plate	*Driver Door*	*S79D Window Switch - Driver (A31)*
S79P	Window Switch - Passenger	A31	Attached to the right front door accessory mount plate	*Front Passenger Door*	*S79P Window Switch - Passenger (A31)*
S85	Auxiliary Blower Motor Switch	C36 without C69	In the center of the instrument panel	*Instrument Panel Components*	*S85 Auxiliary Blower Motor Switch*
T2	Antenna	except UL5	Attached to the right front fender	*Right Rear of the Engine Compartment*	—
T4D	Cellular Phone and Digital Radio Antenna	—	—	—	—
T4E	Cellular Phone and Navigation Antenna	—	—	—	—
T4P	Navigation Antenna	—	—	—	—
T8A	Ignition Coil 1	L20, LMF, L96 or LC8	On the left rocker cover center at cylinder 1	*Upper Left Side of the Engine (LC8, LMF, L20, or L96)*	*T8A Ignition Coil 1 (LC8, LMF, L20 or L96)*
T8B	Ignition Coil 2	L20, LMF, L96 or LC8	On the right rocker cover center at cylinder 2	*Upper Right Side of the Engine (LC8, LMF, L20, or L96)*	*T8B Ignition Coil 2 (LC8, LMF, L20 or L96)*
T8C	Ignition Coil 3	L20, LMF, L96 or LC8	On the left rocker cover center at cylinder 3	*Upper Left Side of the Engine (LC8, LMF, L20, or L96)*	*T8C Ignition Coil 3 (LC8, LMF, L20 or L96)*
T8D	Ignition Coil 4	L20, LMF, L96 or LC8	On the right rocker cover center at cylinder 4	*Upper Right Side of the Engine (LC8, LMF, L20, or L96)*	*T8D Ignition Coil 4 (LC8, LMF, L20 or L96)*
T8E	Ignition Coil 5	L20, LMF, L96 or LC8	On the left rocker cover center at cylinder 5	*Upper Left Side of the Engine (LC8, LMF, L20, or L96)*	*T8E Ignition Coil 5 (LC8, LMF, L20 or L96)*
T8F	Ignition Coil 6	L20, LMF, L96 or LC8	On the right rocker cover center at cylinder 6	*Upper Right Side of the Engine (LC8, LMF, L20, or L96)*	*T8F Ignition Coil 6 (LC8, LMF, L20 or L96)*
T8G	Ignition Coil 7	L20, LMF, L96 or LC8	On the left rocker cover rear at cylinder 7	*Upper Left Side of the Engine (LC8, LMF, L20, or L96)*	*T8G Ignition Coil 7 (LC8, LMF, L20 or L96)*
T8H	Ignition Coil 8	L20, LMF, L96 or LC8	On the right rocker cover rear at cylinder 8	*Upper Right Side of the Engine (LC8, LMF, L20, or L96)*	*T8H Ignition Coil 8 (LC8, LMF, L20 or L96)*

T12	T12 Automatic Transmission Assembly	—	Under the vehicle attached to the rear of the engine		
X50A	Fuse Block - Underhood		In the engine compartment, attached to the left front fender	*Engine Compartment*	Electrical Center Identification Views
X52A	Fuse Block - Passenger Compartment		Below the driver seat	*Front Left Side of Passenger Compartment*	Electrical Center Identification Views
X53A	Fuse Block - Rear Body			—	Electrical Center Identification Views
X60A	Junction Block - Underhood	—	—	—	—
X80A	Accessory Power Receptacle - Center Console 1	without DT4	In the center of the instrument panel	*Instrument Panel Components*	*E32 Cigarette Lighter Receptacle*
X80B	Accessory Power Receptacle - Center Console 2		In the right center of the instrument panel	*Instrument Panel Components*	*X80B Accessory Power Receptacle - Center Console 2*
X84	Data Link Connector	DLC	Left lower side of the instrument panel, near the park brake pedal assembly	*Instrument Panel Components*	*X84 Data Link Connector*
X85	Steering Wheel Air Bag Coil		Inside the upper steering column	—	• *X85 Steering Wheel Air Bag Coil X1* • *X85 Steering Wheel Air Bag Coil X2*
X87RD	Sliding Door Jamb Contact Plate - Right Door	E26 with AU3	Attached to the right B-pillar	—	—
X87LD	Sliding Door Jamb Contact Plate - Left Door	E26 with AU3	Attached to the left B-pillar	—	—
X87LB	Sliding Door Jamb Contact Plate - Left Body	E26 with AU3	Attached to the left B-pillar	*Left Side Door (E26)*	*X87LB Sliding Door Jamb Contact Plate - Left Body (E26 with AU3)*
X87RB	Sliding Door Jamb Contact Plate - Right Body	Passenger or Cargo with AU3	Attached to the right B-pillar	• *Right Sliding Door (YA2)* • *Right Side Door (E24)*	*X87RB Sliding Door Jamb Contact Plate - Right Body (Passenger or Cargo with AU3)*
X88	Trailer Connector	UY7	Below the rear bumper, near the center	—	*X88 Trailer Connector (UY7)*
X92	USB Receptacle	—	—	—	—
X100	Instrument panel harness to the engine harness (40 cavities)		Instrument panel harness to the engine harness, left rear of the engine compartment near the underhood fuse block and the horn	*Instrument Panel Harness Routing - Front Engine Compartment*	• *X100 Instrument Panel Harness to Engine Harness (Gas)* • *X100 Instrument Panel Harness to Engine Chassis Harness (Diesel)*

X101	Engine chassis harness to the chassis harness (40 cavities)	LGH	Engine chassis harness to the chassis harness, left rear of the engine compartment behind the underhood fuse block	*Engine Harness Routing (LGH)*	*X101 Engine Chassis Harness to Chassis Harness (LGH)*
X101	Chassis harness to the engine harness (30 cavities)		Chassis harness to the engine harness, left rear of the engine compartment behind the underhood fuse block	• *Engine Harness Routing - Front (LU3)* • *Engine Harness Routing - Front (LMF)* • *Engine Harness Routing - Front (LC8, L20, or L96)*	*X101 Chassis Harness to Engine Harness (LC8, LMF, LU3, L20 or L96)*
X103	Instrument panel harness to engine harness (10 cavities)		Instrument panel harness to engine harness, about 8.8 inches (225 mm) from I/P underhood break out after pass through grommet	—	*X103 Instrument Panel Harness to Engine Harness*
X104	Instrument panel harness to the inflatable restraint front end sensor jumper harness (2 cavities)		Instrument panel harness to the inflatable restraint front end sensor jumper harness, bottom left side of the radiator support	*Instrument Panel Harness Routing - Front Engine Compartment*	*X104 Instrument Panel Harness to Front Impact Sensor Jumper*
X105	Engine chassis harness to the chassis harness (16 cavities)		Engine chassis harness to the chassis harness, right front inner frame rail	—	*X105 Engine Harness to Chassis Harness (LGH)*
X107	Engine chassis harness to the engine harness (30 cavities)	LGH	Engine chassis harness to the engine harness, in the engine compartment, left front upper corner of the engine assembly	*Engine Harness Routing (LGH)*	*X107 Engine Chassis Harness to Engine Harness (LGH)*
X108	Engine chassis harness to the engine harness	LGH	—	*Engine Harness Routing - Front View (LMM)*	—
X109	Engine harness to the underhood lamp jumper harness (2 cavities)		Engine harness to the underhood lamp jumper harness, left rear of the engine compartment	• *Engine Harness Routing - Front (LU3)* • *Engine Harness Routing - Front (LMF)* • *Engine Harness Routing - Front (LC8, L20, or L96)* • *Engine Harness Routing (LGH)*	• *X109 Engine Harness to Underhood Lamp Harness (Gas)* • *X109 Engine Chassis Harness to Underhood Lamp Harness (Diesel)*
X110	Engine jumper harness to the engine harness (12 cavities)	LGH	Engine jumper harness to the engine harness, in the engine compartment, near the upper front corner of the left valve cover	*Left Front of Engine Harness Routing (LGH)*	*X110 Engine Jumper Harness to Engine Harness (LGH)*
X111	Engine jumper harness to the engine harness	L20, LMF, L96 or LC8	Engine jumper harness to the engine harness, in the engine compartment, near the upper front corner of the left valve cover	*Upper Engine (LGH)*	—

X111	Engine jumper harness to the engine harness	LGH	Engine jumper harness to the engine harness, in the engine compartment, near the upper front corner of the left valve cover	*Left Front of Engine Harness Routing (LGH)*	—
X112	Fuel rail jumper harness to the engine harness (6 cavities)	LGH	Fuel rail jumper harness to the engine harness, in the engine compartment, near the upper rear corner of the left valve cover	*Left Front of Engine Harness Routing (LGH)*	*X112 Fuel Rail Jumper Harness to Engine Harness (LGH)*
X115	Engine chassis harness to the catalytic converter jumper harness (16 cavities)	LGH Cutaway	Engine chassis harness to the catalytic converter jumper harness, in the lower right rear side of the engine compartment	—	*X115 Engine Chassis Harness to Catalytic Converter Jumper Harness (LGH Cutaway)*
X126	Engine harness to the left ignition coils jumper harness (7 cavities)	L20, LMF, L96 or LC8	Engine harness to the left ignition coils jumper harness, top center of the left valve cover	• *Engine Harness Routing - Left Rear (LMF)* • *Engine Harness Routing - Left Rear (LC8, L20, or L96)*	*X126 Engine Harness to Left Ignition Coil Harness (LC8, LMF, LU3, L20 or L96)*
X127	Engine harness to the right ignition coils jumper harness (7 cavities)	L20, LMF, L96 or LC8	Engine harness to the right ignition coils jumper harness, top center of the right valve cover	• *Engine Harness Routing - Front (LMF)* • *Engine Harness Routing - Front (LC8, L20, or L96)*	*X127 Engine Harness to Right Ignition Coil Harness (LC8, LMF, L20 or L96)*
X128	Engine harness to the rear oxygen sensors jumper harness (8 cavities)	L20, L96 or LC8	Engine harness to the rear oxygen sensors jumper harness, right frame rail	*Engine Harness Routing - Front (LC8, L20, or L96)*	*X128 Engine Harness to Heated Oxygen Sensor Jumper Harness (Cutaway with LC8, L20 or L96)*
X141	Instrument panel harness to the brake fluid alarm switch jumper harness (2 cavities)	UJ1	Instrument panel harness to the brake fluid alarm switch jumper harness, left rear of the engine compartment near the cowl	*Instrument Panel Harness Routing - Front Engine Compartment*	*X141 Instrument Panel Harness to Brake Fluid Level Jumper Harness (UJ1)*
X142	Engine chassis harness to the fan jumper harness (5 cavities)	LGH	Engine chassis harness to the fan jumper harness, near the front of the engine	*Front of Engine Compartment Components (LGH)*	*X142 Engine Chassis Harness to Fan Jumper Harness (LGH)*
X150	Instrument panel harness to the forward lamp harness (2 cavities)	UFA	Instrument panel harness to the forward lamp harness, near the upper radiator hose at the radiator entry point	*Forward Lamp Harness Routing*	*X150 Instrument Panel Harness to Forward Lamp Harness (UFA)*
X161	On the left side of the intake manifold (2 cavities)		On the left side of the intake manifold, above fuel injector 1	—	*X161 Engine Harness to Fuel Injector 1 Harness (LC8 with FHZ)* *X161 Engine Harness to Fuel Injector 1 Harness (KO7 and UFM)*
X162	On the right side of the intake manifold (2 cavities)		On the right side of the intake manifold, above fuel injector 2	—	*X162 Engine Harness to Fuel Injector 2 Harness (LC8 with FHZ)* *X162 Engine Harness to Fuel Injector 2 Harness (KO7 and UFM)*

X163	On the left side of the intake manifold (2 cavities)		On the left side of the intake manifold, above fuel injector 3	—	*X163 Engine Harness to Fuel Injector 3 Harness (LC8 with FHZ)* *X163 Engine Harness to Fuel Injector 3 Harness (KO7 and UFM)*
X164	On the right side of the intake manifold (2 cavities)		On the right side of the intake manifold, above fuel injector 4	—	*X164 Engine Harness to Fuel Injector 4 Harness (LC8 with FHZ)* *X164 Engine Harness to Fuel Injector 4 Harness (KO7 and UFM)*
X165	On the left side of the intake manifold (2 cavities)		On the left side of the intake manifold, above fuel injector 5	—	*X165 Engine Harness to Fuel Injector 5 Harness (LC8 with FHZ)* *X165 Engine Harness to Fuel Injector 5 Harness (KO7 and UFM)*
X166	On the right side of the intake manifold (2 cavities)		On the right side of the intake manifold, above fuel injector 6	—	*X166 Engine Harness to Fuel Injector 6 Harness (LC8 with FHZ)* *X166 Engine Harness to Fuel Injector 6 Harness (KO7 and UFM)*
X167	On the left side of the intake manifold (2 cavities)		On the left side of the intake manifold, above fuel injector 7	—	*X167 Engine Harness to Fuel Injector 7 Harness (LC8 with FHZ)* *X167 Engine Harness to Fuel Injector 7 Harness (KO7 and UFM)*
X168	On the right side of the intake manifold (2 cavities)		On the right side of the intake manifold, above fuel injector 8	—	*X168 Engine Harness to Fuel Injector 8 Harness (LC8 with FHZ)* *X168 Engine Harness to Fuel Injector 8 Harness (KO7 and UFM)*
X174	Chassis harness to the transmission jumper harness (16 cavities)	LGH	Chassis harness to the transmission jumper harness, left center upper frame rail near the fuel pump assembly	—	*X174 Transmission Harness to Chassis Harness (LGH)*
X175	Engine harness to the transmission (20 cavities)	M30	Engine harness to the transmission, right side of the transmission	*Automatic Transmission Harness Routing (M30)*	*X175 Engine Harness to Transmission Harness (M30)*
X176	Engine harness to the camshaft harness (3 cavities)	LU3	Engine harness to the camshaft harness, right front side of the engine near the crank pulley	*Engine Harness Routing - Front (LU3)*	*X176 Engine Harness to Camshaft Position Sensor Jumper Harness (LU3)*
X177	Engine harness to the camshaft harness (3 cavities)	L20 or LMF	Engine harness to the camshaft harness, left front of the engine near the crank pulley	• *Engine Harness Routing - Front (LMF)* • *Engine Harness Routing - Front (LC8, L20, or L96)*	*X177 Engine Harness to Camshaft Position Sensor Jumper Harness (L20 or LMF)*

X180	LPG tank harness to LPG main harness (1 cavity)	KO7 with UFM	LPG tank harness to LPG main harness, about 254 mm (10.07 inches) from X350	—	*X180 LPG Tank Harness to LPG Main Harness (KO7 with UFM)*
X177	Engine harness to the camshaft harness (5 cavities)	L96 or LC8	Engine harness to the camshaft harness, left front of the engine near the crank pulley	*Engine Harness Routing - Front (LC8, L20, or L96)*	*X177 Engine Harness to Camshaft Position Sensor Jumper Harness (LC8 or L96)*
X200	Steering column harness to the instrument panel harness (48 cavities)		Steering column harness to the instrument panel harness, at the base of the steering column	• *Instrument Panel Harness Routing - Passenger Compartment* • *Steering Column Harness Routing*	*X200 Steering Column Harness to Instrument Panel Harness*
X202	Instrument panel harness to engine harness (16 cavities)	UD7	Instrument panel harness to engine harness, about 8.8 inches (225 mm) from I/P underhood break out after pass through grommet	—	*X202 Instrument Panel Harness to Engine Harness (UD7)*
X204	Body harness to headliner harness (8 cavities)	UVC	Body harness to headliner harness,	—	*X204 Body Harness to Headliner Harness (UVC)*
X205	Front headliner harness to the body harness (16 cavities)		Front headliner harness to the body harness, behind the A-pillar	• *Body Harness Routing - Right Front Passenger Compartment* • *Front and Rear Headliner Harness Routing*	*X205 Front Headliner Harness to Body Harness*
X206	Body harness to the front headliner harness (2 cavities)	C69	Body harness to the front headliner harness, behind the A-pillar	—	*X206 Body Harness to Front Headliner Harness (C69)*
X220	Instrument panel harness to the parking brake jumper harness (2 cavities)		Instrument panel harness to the parking brake jumper harness, left side of the instrument panel, center of the parking brake pedal assembly	• *Instrument Panel Harness Routing - Passenger Compartment* • *Instrument Panel Harness Routing - Passenger Compartment*	*X220 Instrument Panel Harness to Park Brake Jumper Harness*
X221	Instrument panel harness to the professional harness	—	—	*Instrument Panel Harness Routing - Passenger Compartment*	—
X222	Upfitter harness to the instrument panel harness (4 cavities)	YF2 or YF7	Upfitter harness to the instrument panel harness, left side of the instrument panel near the parking brake lever assembly	*Instrument Panel Harness Routing - Passenger Compartment*	*X222 Upfitter Provision Harness to Instrument Panel Harness (YF2 or YF7)*
X225	Accelerator Pedal Position (APP) Jumper Harness to Instrument Panel Harness (6 cavities)		Accelerator Pedal Position (APP) Jumper Harness to Instrument Panel Harness, located between Accelerator Pedal Position (APP) sensor and Instrument Panel Harness	—	*X225 Accelerator Pedal Position (APP) Sensor Jumper Harness to Instrument Panel Harness*

X276	Steering wheel harness to the instrument panel harness (4 cavities)		Steering wheel harness to the instrument panel harness, in the back of the left instrument panel knee bolster above X200	• *Instrument Panel Harness Routing - Passenger Compartment* • *Instrument Panel Harness Routing - Passenger Compartment*	*X276 Steering Wheel Harness to Instrument Panel Harness*
X278	Instrument panel harness to the professional harness (8 cavities)	PRP	Instrument panel harness to the professional harness, middle of instrument panel behind the radio	—	*X278 Instrument Panel Harness to Professional Harness (PRP)*
X305	Chassis harness to the coolant heater fuel pump jumper harness (2 cavities)	K08	Chassis harness to the coolant heater fuel pump jumper harness, left center inner frame rail near the fuel pump assembly	*Chassis Harness Routing (LMM)*	*X305 Chassis Harness to Fuel Pump Jumper Harness (K08)*
X306	Body harness to the front passenger seat harness (12 cavities)		Body harness to the front passenger seat harness, right side of the passenger compartment below the passenger seat	• *Body Harness Routing - Right Front Passenger Compartment* • *Driver and Front Passenger Seats Harness Routing* • *Passenger Seat*	*X306 Body Harness to Passenger Seat Harness*
X307	Body harness to the driver seat harness (6 cavities)		Body harness to the driver seat harness, left side of the passenger compartment below the driver seat	• *Body Harness Routing - Left Front Passenger Compartment* • *Driver Seat*	*X307 Body Harness to Driver Seat Harness*
X316	Transmission jumper harness to the fuel pump harness (6 cavities)	LGH	Transmission jumper harness to the fuel pump harness,	—	*X316 Transmission Harness to Fuel Pump Harness (LGH)*
X318	Instrument panel harness to the body harness (40 cavities)		Instrument panel harness to the body harness, behind the left kick panel	*Instrument Panel Harness Routing - Passenger Compartment*	*X318 Instrument Panel Harness to Body Harness (Passenger or Cargo)*
X319	Rear heater switch harness to the body harness (8 cavities)	C36 or ENC	Rear heater switch harness to the body harness, behind the left kick panel	*Body Harness Routing - Left Front Passenger Compartment*	*X319 Rear Heater Switch Harness to Body Harness (C36 with ENC)*
X320	Upfitter harness to the body harness (16 cavities)	YF2 or YF7	Upfitter harness to the body harness, left side of the passenger compartment lower left C-pillar	*Body Harness Routing - Right Rear (Passenger or Cargo)*	*X320 Upfitter Provision Harness to Body Harness (YF2 or YF7)*
X321	Upfitter harness to the body harness (4 cavities)	YF2 or YF7	Upfitter harness to the body harness, left side of the passenger compartment center of the left C-pillar	*Body Harness Routing - Right Rear (Passenger or Cargo)*	*X321 Upfitter Provision Harness to Body Harness (YF2 or YF7)*
X324	Right rear side impact sensor jumper harness to the body harness (2 cavities)	ASF	Right rear side impact sensor jumper harness to the body harness, at the bottom of the right C-pillar	*Body Harness Routing - Right Front Passenger Compartment*	*X324 Right Rear Side Impact Sensor Jumper to Body Harness (ASF)*

X329	Instrument panel harness to the body harness (8 cavities)	UVC	Instrument panel harness to the body harness, in the passenger compartment under the driver seat	—	*X329 Instrument Panel Harness to Body Harness (UVC)*
X330	Instrument panel harness to the body harness (4 cavities)		Instrument panel harness to the body harness, under the driver seat	• *Instrument Panel Harness Routing - Passenger Compartment* • *Body Harness Routing - Left Front Passenger Compartment*	*X330 Instrument Panel Harness to Body Harness*
X331	Instrument panel harness to the body harness (4 cavities)		Instrument panel harness to the body harness, under the driver seat	• *Instrument Panel Harness Routing - Passenger Compartment* • *Body Harness Routing - Left Front Passenger Compartment*	*X331 Instrument Panel Harness to Body Harness*
X350	Chassis harness to CNG power harness (4 cavities)	FHZ	Chassis harness to CNG power harness, in the vehicle underbody, left middle	—	*X350 Chassis Harness to CNG Power Harness (FHZ)*
X350	Chassis harness to LPG chassis harness (4 cavities)	KO7	Chassis harness to LPG chassis harness, in the vehicle underbody, left middle of frame rail	—	*X350 Chassis Harness to LPG Harness (KO7 with UFP)* *X350 Chassis Harness to LPG Chassis Harness (KO7 with UFM)*
X360	Professional Harness to Instrument Panel Harness (1 cavity)	PRP	Professional Harness to Instrument Panel Harness, about 365 mm (14.3 inches) from Fuse Block - Body X1 connector	—	*X360 Professional Harness to Instrument Panel Harness (PRP)*
X395	Chassis harness to reductant jumper harness (24 cavities)	LGH and 135" WB, 155" WB, 159" WB with NE7, or 177" WB	Chassis harness to reductant jumper harness, near left side of the frame, above the reductant tank	—	*X395 Chassis Harness to Reductant Jumper Harness (LGH)*
X395	Chassis harness to reductant jumper harness (24 cavities)	LGH and 139" WB, or 159" WB without NE7	Chassis harness to reductant jumper harness, near middle rear crossmember, above the reductant tank	*Chassis Harness Routing (LGH)*	*X395 Chassis Harness to Reductant Jumper Harness (LGH)*
X400	Right cargo door harness to the body harness (10 cavities)		Right cargo door harness to the body harness, right rear of the passenger compartment center of the right D-pillar	*Body Harness Routing - Left Rear (Passenger or Cargo)*	*X400 Right Rear Cargo Door to Body Harness (Passenger or Cargo)*
X401	Left tail lamp harness to the body harness (6 cavities)		Left tail lamp harness to the body harness, left rear of the passenger compartment center of the left D-pillar	*Body Harness Routing - Right Rear (Passenger or Cargo)*	*X401 Left Tail Lamp Harness to Body Harness (Passenger or Cargo)*

X402	Right tail lamp harness to the body harness (6 cavities)		Right tail lamp harness to the body harness, RR of the passenger compartment center of the right D-pillar	*Body Harness Routing - Left Rear (Passenger or Cargo)*	*X402 Right Tail Lamp Harness to Body Harness (Passenger or Cargo)*
X403	Rear cargo door harness to body harness (8 cavities)	UVC	Rear cargo door harness to body harness,	—	*X403 Rear Cargo Door Harness to Body Harness (UVC)*
X405	Cutaway rear lighting connector to the chassis harness (10 cavities)		Cutaway rear lighting connector to the chassis harness, left rear frame rail	*Chassis Harness Routing (LC8, LMF, LU3, L20, or L96)*	*X405 Cutaway Rear Lighting Connector to Chassis Harness (Cutaway)*
X407	Rear HVAC harness to the body harness (6 cavities)	C36 with C69	Rear HVAC harness to the body harness, left rear of the passenger compartment upper back side of the auxiliary HVAC module at the D-pillar	*Body Harness Routing - Right Rear (Passenger or Cargo)*	*X407 Rear HVAC Harness to Body Harness (C36 or C69)*
X408	Rear bumper harness to chassis harness (6 cavities)	UD7	Rear bumper harness to chassis harness,	—	*X408 Rear Bumper Harness to Chassis Harness (UD7)*
X409	Rear HVAC harness to body harness (2 cavities)	C36 with C69	Rear HVAC harness to body harness, left rear of the passenger compartment upper back side of the auxiliary HVAC module	*Body Harness Routing - Right Rear (Passenger or Cargo)*	*X409 Rear HVAC Harness to Body Harness (C36 or C69)*
X411	Left cargo door harness to the body harness (6 cavities)		Left cargo door harness to the body harness, left rear of the passenger compartment center of the left D-pillar	*Body Harness Routing - Right Rear (Passenger or Cargo)*	*X411 Left Rear Cargo Door Harness to Body Harness (Passenger or Cargo)*
X412	Right cargo door harness to the body harness (3 cavities)		Right cargo door harness to the body harness, right rear of the passenger compartment center of the right D-pillar	*Body Harness Routing - Left Rear (Passenger or Cargo)*	*X412 Right Rear Cargo Door to Body Harness (Passenger or Cargo)*
X413	Chassis harness to the left rear wheel speed sensor jumper harness (2 cavities)	JL4	Chassis harness to the left rear wheel speed sensor jumper harness, left rear frame rail	—	*X413 Chassis Harness to Left Rear Wheel Speed Sensor Jumper Harness (JL4)*
X414	Chassis harness to the right rear wheel speed sensor jumper harness (2 cavities)	JL4	Chassis harness to the right rear wheel speed sensor jumper harness, right rear frame rail	—	*X414 Chassis Harness to Right Rear Wheel Speed Sensor Jumper Harness (JL4)*
X415	Rear overhead speakers jumper harness to the body harness (4 cavities)		Rear overhead speakers jumper harness to the body harness, rear of the passenger compartment center of the rear roof rail	*Body Harness Routing - Left Rear (Passenger or Cargo)*	*X415 Roof Center Speaker Harness to Body Harness (Passenger or Cargo)*
X417	Dome lamp to the body harness (2 cavities)	Cargo without YF7	Dome lamp to the body harness, left side of the passenger compartment near the upper left C-pillar	*Front and Rear Headliner Harness Routing*	*X417 Dome Lamp Harness to Body Harness (Cargo without YF7)*

X419	CHMSL harness to the body harness (2 cavities)		CHMSL harness to the body harness, rear of the passenger compartment center of the rear roof rail	*Body Harness Routing - Left Rear (Passenger or Cargo)*	*X419 Center High Mounted Stop Lamp Harness to Body Harness (Passenger or Cargo)*
X420	Headliner harness to the body harness (12 cavities)		Headliner harness to the body harness, top of the right D-pillar	*Front and Rear Headliner Harness Routing*	*X420 Headliner Harness to Body Harness (Passenger or Cargo)*
X460	Trailer Provision (Trailer Cap) to Chassis Harness (1 cavity)	Cutaway with NE7 and UY7	Trailer Provision (Trailer Cap) to Chassis Harness, in rear near Trailer Harness	—	*X460 Chassis to Harness Trailer Provision (Trailer Cap) (Cutaway with NE7 and UY7)*
X500	Driver door harness to the body harness (40 cavities)		Driver door harness to the body harness, behind the left kick panel	• *Body Harness Routing - Left Front Passenger Compartment* • *Front and Rear Headliner Harness Routing*	*X500 Driver Door Harness to Body Harness*
X501	Driver side impact sensor harness to the driver door harness (2 cavities)	ASF	Driver side impact sensor harness to the driver door harness, in the driver door behind the trim panel	*Front and Rear Headliner Harness Routing*	*X501 Driver Side Impact Sensor Jumper Harness to Driver Door Harness (ASF)*
X600	Passenger door harness to the body harness (22 cavities)		Passenger door harness to the body harness, behind the right kick panel	• *Body Harness Routing - Right Front Passenger Compartment* • *Front and Rear Headliner Harness Routing*	*X600 Passenger Door Harness to Body Harness*
X601	Passenger side impact sensor harness to the passenger door harness (2 cavities)	ASF	Passenger side impact sensor harness to the passenger door harness, in the passenger door behind the trim panel	*Front and Rear Headliner Harness Routing*	*X601 Passenger Side Impact Sensor Jumper Harness to Passenger Door Harness (ASF)*
X901	Rear window defogger jumper harness to the left cargo door harness (2 cavities)	C49 with A12	Rear window defogger jumper harness to the left cargo door harness, in the left cargo door	*Rear Cargo Doors Harness Routing (Passenger or Cargo)*	*X901 Defogger Jumper Harness to Left Rear Cargo Door Harness (C49 with A12)*
X902	Rear window defogger jumper harness to the right cargo door harness (2 cavities)	C49 with A12	Rear window defogger jumper harness to the right cargo door harness, in the right cargo door	*Rear Cargo Doors Harness Routing (Passenger or Cargo)*	*X902 Rear Window Defogger Jumper Harness to Right Rear Cargo Door Harness (C49 or A12)*
G100	Forward Lamp Harness		Left front of the engine compartment, attached to the front of the left fender	*Forward Lamp Harness*	—
G101	Forward Lamp Harness		Right front of the engine compartment, attached near the front of the right fender	*Forward Lamp Harness*	—
G102	Engine Harness	LU3 or LMF	Rear of the engine compartment, right rear side of the engine on the right cylinder head	• *Engine Harness Routing - Left Rear (LU3)* • *Engine Harness Routing - Left Rear (LMF)*	—

G102	Engine Harness	LC8, L20, or L96	Rear of the engine compartment, left rear of the engine on the left cylinder head	*Engine Harness Routing - Left Rear (LC8, L20, or L96)*	—
G102	Chassis Harness	LGH	Right side of engine compartment, on inner fender wall, behind right headlight	*G102/G103 (LGH)*	—
G103	Engine Harness	LU3, LMF, LC8, L20, or L96	Rear of the engine compartment, left rear of the engine on the left cylinder head	• *Engine Harness Routing - Left Rear (LU3)* • *Engine Harness Routing - Left Rear (LMF)* • *Engine Harness Routing - Left Rear (LC8, L20, or L96)*	—
G103	Chassis Harness	LGH	Right side of engine compartment, on inner fender wall, behind right headlight	*G102/G103 (LGH)*	—
G104	Engine Harness	LGH		*Engine Harness Routing - Part of Assembly (POA) (LMM)*	—
G105	Chassis Harness		Front of the engine compartment, right front of the inner frame rail	—	—
G106	Chassis Harness		Front of the engine compartment, right front fender	—	—
G107	Engine Harness	LGH		*Engine Harness Routing - Part of Assembly (POA) (LMM)*	—
G108	Engine Harness	LGH		*Engine Harness Routing - Part of Assembly (POA) (LMM)*	—
G109	Engine Harness	LGH	Right front lower side of the engine block	*Right Front of Engine Harness Routing (LGH)*	—
G110	Engine Harness	LGH	Left front lower side of the engine block	*Left Front of Engine Harness Routing (LGH)*	—
G110	Engine Harness	L20, LMF, L96 or LC8	Left front lower side of the engine block	—	—
G120	Engine Harness	L20, LMF, L96 or LC8	Left side inner frame rail	—	—
G300	Chassis Harness		Left side outer frame, near the EBCM	*Chassis Harness Routing (LU3, L20, LMF or L96)*	—
G301	Body Harness		Left front of the passenger compartment, behind the kick panel next to G302	*Body Harness Routing - Left Front Passenger Compartment*	—
G302	Body Harness		Left front of the passenger compartment, behind the kick panel next to G301	*Body Harness Routing - Left Front Passenger Compartment*	—

G304	Instrument Panel		Right front of the passenger compartment, behind the kick panel	*Instrument Panel Harness Routing - Passenger Compartment*	—
G305	Chassis Harness	LGH	Left center outer frame rail, near the auxiliary battery	*Left Side Frame (LMM or LGH)*	—
G347	Body Harness		Left side of the passenger compartment, lower left B-pillar part of JX347	*Body Harness Routing - Left Front Passenger Compartment*	—
G348	Body Harness		Right side of the passenger compartment, lower right B-pillar part of JX348	*Body Harness Routing - Right Front Passenger Compartment*	—
G350	Chassis Harness	FHZ	In vehicle underbody, near center, at rear of transmission case	—	—
G400	Chassis Harness		Left rear inner side frame rail	*Chassis Harness Routing (LU3, L20, LMF or L96)*	—
G401	Body Harness	Passenger or Cargo	Right rear of the passenger compartment, upper right D-pillar	*Body Harness Routing - Left Rear (Passenger or Cargo)*	—
G402	Body Harness	Passenger or Cargo	Left rear of the passenger compartment, center left D-pillar	*Body Harness Routing - Right Rear (Passenger or Cargo)*	—
G403	Body Harness	PRP	Left rear of the passenger compartment, center left D-pillar	—	—
J101	Engine Harness	—	In the engine harness, on the right side of the engine, approximately 5 cm (2 in) from the MAP sensor breakout	• *Engine Harness Routing (LGH)* • *Top of the Engine (LC8, LMF, L20, or L96)*	—
J102	Engine Harness	—	In the engine harness, on the right side of the engine, approximately 6 cm (2 in) from the MAP sensor breakout	• *Engine Harness Routing (LGH)* • *Top of the Engine (LC8, LMF, L20, or L96)*	—
J110	Forward Lamp Harness	—	In the forward lamp harness, Left front of the vehicle, approximately 12 cm (5 in) from the left headlamp connector breakout	*Forward Lamp Harness Routing*	—
J115	Engine Harness	—	In the engine harness, in the right front of the engine compartment, approximately 15 cm (6 in) from the X101 breakout	• *Engine Harness Routing - Front (LU3)* • *Engine Harness Routing - Front (LMF)* • *Engine Harness Routing - Front (LC8, L20, or L96)* • *Engine Harness Routing (LGH)*	—

J118	Forward Lamp Harness	—	In the forward lamp harness, right front of the vehicle, approximately 6 cm (2 in) from the right headlamp connector breakout	*Forward Lamp Harness Routing*	—
J119	Chassis Harness	LGH	In the chassis harness, near the left front inner frame rail, approximately 15 cm (6 in) from the coolant heater breakout	*Chassis Harness Routing (LGH)*	—
J120	Engine Harness	LU3	In the engine harness, in the right front of the engine compartment, approximately 5 cm (2 in) from the X101 breakout	*Engine Harness Routing - Front (LU3)*	—
J121	Forward Lamp Harness	—	In the forward lamp harness, near the front center of the vehicle, approximately 48 cm (19 in) from the left headlamp breakout	*Forward Lamp Harness Routing*	—
J122	Forward Lamp Harness	—	In the forward lamp harness, near the left front of the vehicle, approximately 12 cm (5 in) from the underhood fuse block X4 breakout	*Forward Lamp Harness Routing*	—
J123	Engine Harness	—	In the engine harness, near the left front side of the vehicle, approximately 16 cm (6 in) from the underhood fuse block X1 breakout	• *Engine Harness Routing - Front (LU3)* • *Engine Harness Routing - Front (LMF)* • *Engine Harness Routing - Front (LC8, L20, or L96)* • *Engine Harness Routing (LGH)*	—
J127	J127 (MYD)	MYD	Internal to the transmission	—	—
J135	J135 (M30)	M30	Internal to the transmission	—	—
J145	Chassis Harness	LGH	In the engine chassis harness, at the left front side of the engine compartment, approximately 4 cm (1.5 in) from the engine control module (ECM) X1 (LGH) breakout	—	—
J150	Chassis Harness	LU3	In the engine harness, in the right front of the engine compartment, approximately 24 cm (9 in) from the X101 breakout	—	—

J151	Chassis Harness	LU3	In the engine harness, in the right front of the engine compartment, approximately 10.5 cm (4 in) from the X101 breakout	—	—
J160	Engine Harness	LGH	In the engine harness, in the left front of the engine compartment, approximately 5.5 cm (2.2 in) from the X110 breakout	*Left Front of Engine Harness Routing (LGH)*	—
J161	Engine Harness	LGH	In the engine harness, in the left front of the engine compartment, approximately 6.5 cm (2.5 in) from the engine control module X2 connector breakout	*Engine Harness Routing (LGH)*	—
J162	Engine Harness	LGH	In the engine harness, in the right front of the engine compartment, approximately 10 cm (3.9 in) from the G109 breakout	*Right Front of Engine Harness Routing (LGH)*	—
J163	Engine Harness	LGH	In the engine harness, in the right front of the engine compartment, approximately 23 cm (9 in) from the G109 breakout	*Right Front of Engine Harness Routing (LGH)*	—
J164	Engine Harness	LGH	In the engine jumper harness, in the left front of the engine compartment, approximately 9 cm (3.5 in) from the X110 connector	*Left Front of Engine Harness Routing (LGH)*	—
J167	LPG Harness	(KO7 with UFM)	In the LPG Main harness, first splice from battery positive ring terminal circuit	—	—
J168	LPG Harness	(KO7 with UFM)	In the LPG Main harness, near “Wait To Start” Lamp Relay	—	—
J169	LPG Harness	(KO7 with UFM)	In the LPG Main harness, in battery positive circuit closest to bulkhead, in underhood area	—	—
J170	LPG Harness	(KO7 with UFM)	In the LPG Main harness, dividing battery positive voltage between LPG Bypass Solenoid relay and vacuum pump	—	—
J171	LPG Harness	(KO7 with UFM)	In the LPG Main harness, inside vehicle, dividing battery positive voltage to LPG Control Module and circuit leading to LPG Control Module with resistor	—	—

J172	LPG Harness	(KO7 with UFM)	In the LPG Main harness, in battery positive voltage circuit, powering LPG Bypass Solenoid Relay	—	—
J176	LPG Harness	(KO7 with UFM)	In the LPG Main harness, in underhood area, dividing ground to LPG Bypass Solenoid	—	—
J179	LPG Harness	(KO7 with UFM)	In the LPG Main harness, inside of vehicle, closest to LPG Control Module dividing ground between module and Wait To Start Lamp	—	—
J182	Ignition/Coil Module Harness	(L20, LMF, L96 or LC8)	In the odd ignition/coil module jumper harness, top left of the engine	—	—
J183	Ignition/Coil Module Harness	(L20, LMF, L96 or LC8)	In the even ignition/coil module jumper harness, top right of the engine	—	—
J184	Ignition/Coil Module Harness	(L20, LMF, L96 or LC8)	In the odd ignition/coil module jumper harness, top left of the engine	—	—
J185	Ignition/Coil Module Harness	(L20, LMF, L96 or LC8)	In the even ignition/coil module jumper harness, top right of the engine	—	—
J187	Ignition/Coil Module Harness	(L20, LMF, L96 or LC8)	In the odd ignition/coil module jumper harness, top left of the engine	—	—
J188	Ignition/Coil Module Harness	(L20, LMF, L96 or LC8)	(CKT 2130) In the even ignition/coil module jumper harness, top right of the engine	—	—
J202	Steering Column Harness	—	In the steering column harness, approximately 25 cm (9 in) from the X200 connector	—	—
J203	Steering Column Harness	—	In the steering column harness, approximately 27 cm (10.5 in) from the X200 connector	—	—
J205	Steering Column Harness	—	In the steering column harness, approximately 30 cm (12 in) from the X200 connector	—	—
J207	Instrument Panel Harness	—	In the instrument panel harness, center of the instrument panel, approximately 70 cm (27 in) from the radio and HVAC control assembly breakout	*Instrument Panel Harness Routing - Splices*	—

J208 (W1Y)	Steering Wheel Harness	—	In the steering wheel harness, near the X200 connector	—	—
J209 (K34 with W1Y)	Steering Wheel Harness	—	In the steering wheel harness, near the X200 connector	—	—
J210 (K34)	Steering Wheel Harness	—	In the steering wheel harness, near the X200 connector	—	—
J231	Instrument Panel Harness	—	In the instrument panel harness, left side of the instrument panel, approximately 5 cm (2 in) from the X200 breakout towards the instrument panel cluster connector	*Instrument Panel Harness Routing - Splices*	—
J244	Instrument Panel Harness	—	In the instrument panel harness, left side of the instrument panel, approximately 12 cm (5 in) from the X200 breakout towards the instrument panel cluster connector	*Instrument Panel Harness Routing - Splices*	—
J245	Instrument Panel Harness	DE7	In the instrument panel harness, center of the instrument panel, approximately 30 cm (12 in) from the radio and HVAC control assembly breakout	*Instrument Panel Harness Routing - Splices*	—
J246	Instrument Panel Harness	DE7	In the instrument panel harness, center of the instrument panel, approximately 43.5 cm (17 in) from the radio and HVAC control assembly breakout	*Instrument Panel Harness Routing - Splices*	—
J247	Instrument Panel Harness	—	In the instrument panel harness, left side of the instrument panel, approximately 36 cm (14.37 in) from the C200 breakout towards the underhood fuse block	*Instrument Panel Harness Routing - Splices*	—
J248	Instrument Panel Harness	—	In the instrument panel harness, left side of the instrument panel, approximately 8 cm (3.14 in) from the C200 breakout towards the instrument panel cluster connector	*Instrument Panel Harness Routing - Splices*	—
J249	Instrument Panel Harness	—	In the instrument panel harness, right side of the instrument panel, approximately 21 cm (8 in) from the G304 breakout	*Instrument Panel Harness Routing - Splices*	—

J250	Instrument Panel Harness	—	In the instrument panel harness, right side of the instrument panel, approximately 5 cm (2.16 in) from the air temperature actuator connector breakout towards the inflatable restraint instrument panel module connector	*Instrument Panel Harness Routing - Splices*	—
J264	Steering Wheel Harness	—	In the steering wheel harness, approximately 20 cm (8 in) from the X200 connector	—	—
J265	Instrument Panel Harness	—	In the instrument panel harness	—	—
J270	Instrument Panel Harness	U2K	In the instrument panel harness, approximately 15 cm (6 in) from the digital radio receiver and cigar lighter connectors breakout	—	—
J271	Instrument Panel Harness	UE1	In the instrument panel harness, approximately 7.5 cm (3 in) from the vehicle communication interface module and cigar lighter connectors breakout	—	—
J280	Instrument Panel Harness	— YF7	(CKT 149) In the instrument panel harness, approximately 20 cm (7.9 in) from the body fuse block and air bag module connectors breakout	—	—
J301	)	LU3, L20, LMF, L96 or LC8 Passenger or Cargo	In the chassis harness, left side frame, approximately 120 cm (5 in) from the fuel pump connector breakout	*Chassis Harness Routing (LU3, L20, LMF or L96)*	—
J301	J301 (LU3, L20, LMF, L96 or LC8) (Cutaway)	LU3, L20, LMF, L96 or LC8 Cutaway	In the chassis harness, left side frame, approximately 21 cm (8 in) from the fuel pump connector breakout	*Chassis Harness Routing (LU3, L20, LMF or L96)*	—
J305	J305 (C69 with YF7)	C69 with YF7	In the front headliner harness, center of the headliner, approximately 31 cm (12.20 in) from the X205 breakout towards the left vanity mirror lamp connector	—	—
J306	J306 (C69 with YF7)	C69 with YF7	In the front headliner harness, center of the headliner, approximately 42 cm (16.53 in) from the X205 breakout towards the left vanity mirror lamp connector	—	—

J307	J307 (C69 or YF7)	C69 or YF7	In the front headliner harness, center of the headliner, approximately 15 cm (6 in) from the X205 breakout towards the left vanity mirror lamp connector	—	—
J308	J308 (C69 without YF7)	C69 without YF7	In the body harness, left side of the passenger compartment, approximately 119 cm (46 in) from the X400 breakout	*Body Harness Routing - Splices (Passenger or Cargo)*	—
J308	J308 (C69 with YF7)	C69 with YF7	In the body harness, left side of the passenger compartment, approximately 22 cm (9 in) from the breakout for the door jamb switch LR side	*Body Harness Routing - Splices (Passenger or Cargo)*	—
J310	J310 (C69 without YF7)	C69 without YF7	In the body harness, left side of the passenger compartment, approximately 110 cm (43 in) from the X400 breakout	*Body Harness Routing - Splices (Passenger or Cargo)*	—
J310	J310 (C69 with YF7)	C69 with YF7	In the body harness, left side of the passenger compartment, approximately 32 cm (12.79 in) from the breakout for the door jamb switch left rear side	*Body Harness Routing - Splices (Passenger or Cargo)*	—
J311	J311 (C69 without YF7)	C69 with YF7	In the body harness, left side of the passenger compartment, approximately 54 cm (21 in) from the X400 breakout	*Body Harness Routing - Splices (Passenger or Cargo)*	—
J311	J311 (C69 with YF7)	C69 with YF7	In the body harness, left side of the passenger compartment, approximately 5 cm (2 in) from the door jamb switch LR side breakout	*Body Harness Routing - Splices (Passenger or Cargo)*	—
J313	J313 (Light Duty)	—	In the driver seat harness, below the driver seat	—	—
J314	J314 (C69)	(C69)	In the front headliner harness, center of the headliner, approximately 22 cm (8.5 in) from the X205 breakout towards the left vanity mirror lamp connector	—	—

J315	J315	—	In the chassis harness, left side frame, approximately 31 cm (12 in) from the G300 breakout	• *Chassis Harness Routing (LC8, LMF, LU3, L20, or L96)* • *Chassis Harness Routing (LGH)*	—
J316	J316 (LGH)	LGH	In the transmission harness, near the front of the fuel pump assembly, approximately 20 cm (7.87 in) from X174 towards the transmission	—	—
J318	J318 (ASF)	ASF	In the body harness, left side of passenger compartment near the B-pillar, approximately 28 cm (11 in) from the underhood fuse block breakout	*Body Harness Routing - Splices (Passenger or Cargo)*	—
J319	J319 (LMF)	LMF	In the chassis harness, near the left front inner frame rail, approximately 7 cm (3 in) from the EBCM breakout	—	—
J320	J320 (Light Duty)	Light Duty	In the body harness, left side of passenger compartment, approximately 28 cm (11 in) from the seat belt buckle driver X2 connector breakout	—	—
J321	J321 (Light Duty)	Light Duty	In the passenger seat harness, below the passenger seat	—	—
J322	J322 (Passenger or Cargo)	Passenger or Cargo	In the body harness, near the front passenger seat, approximately 40 cm (16 in) from the X306 breakout	—	—
J323	J323 (Passenger or Cargo)	Passenger or Cargo	In the body harness, near the front passenger seat, approximately 20 cm (8 in) from the X306 breakout	—	—
J330	J330 (Passenger)	Passenger	In the rear headliner harness, center of the headliner, approximately 30 cm (12 in) to the courtesy reading lamp rear breakout	—	—
J331	J331 (Passenger)	Passenger	In the body harness, near the front passenger seat, approximately 15 cm (6 in) from the X306 breakout	—	—
J332	J332 (DH6 with YF7)	DH6 with YF7	In the front headliner harness, center of the headliner, approximately 11 cm (4 in) from the front right sunshade breakout	—	—

J333	J333 (DH6 without YF7)	DH6 without YF7	In the front headliner harness, center of the headliner, approximately 20 cm (8 in) from the right sunshade breakout	—	—
J354	J354 (C69 with YF7)	DH6 with YF7	In the front headliner harness, center of the headliner, approximately 14 cm (5.5 in) from the X205 breakout towards the left vanity mirror lamp connector	—	—
J355	J355 (C69 with YF7)	DH6 with YF7	In the front headliner harness, center of the headliner, approximately 61 cm (24 in) from the X205 breakout towards the left vanity mirror lamp connector	—	—
J356	J356 (C69 or AU3)	C69 or AU3	In the body harness, on the left front side of the vehicle, approximately 20 cm (7.87 in) from the underhood fuse block breakout	—	—
J361	J361 (KO7 with UFP)	KO7 with UFP	In the LPG chassis harness, about 12.7 cm (5 inches) from LPG Control Module	—	—
J362	J362 (KO7 with UFP)	KO7 with UFP	In the LPG chassis harness, about 30.48 cm (12 inches) from Primary Liquid Propane Delivery Module	—	—
J363	J363 (KO7 with UFP)	KO7 with UFP	In the LPG chassis harness, about 7.62 cm (3 inches) from Primary Fuel Pump Relay	—	—
J364	J364 (KO7 with UFP)	KO7 with UFP	In the LPG chassis harness, about 12.7 cm (5 inches) from Primary Fuel Pump Relay	—	—
J365	J365 (KO7 with UFP)	KO7 with UFP	In the LPG chassis harness, about 7.62 cm (3 inches) from Scavenge Fuel Pump Relay	—	—
J366	J366 (KO7 with UFP)	KO7 with UFP	In the LPG chassis harness, about 12.7 cm (5 inches) from Scavenge Fuel Pump Relay	—	—
J367	J367 (KO7 with UFP)	KO7 with UFP	In the LPG chassis harness, about 7.62 cm (3 inches) from Secondary Fuel Pump Relay	—	—

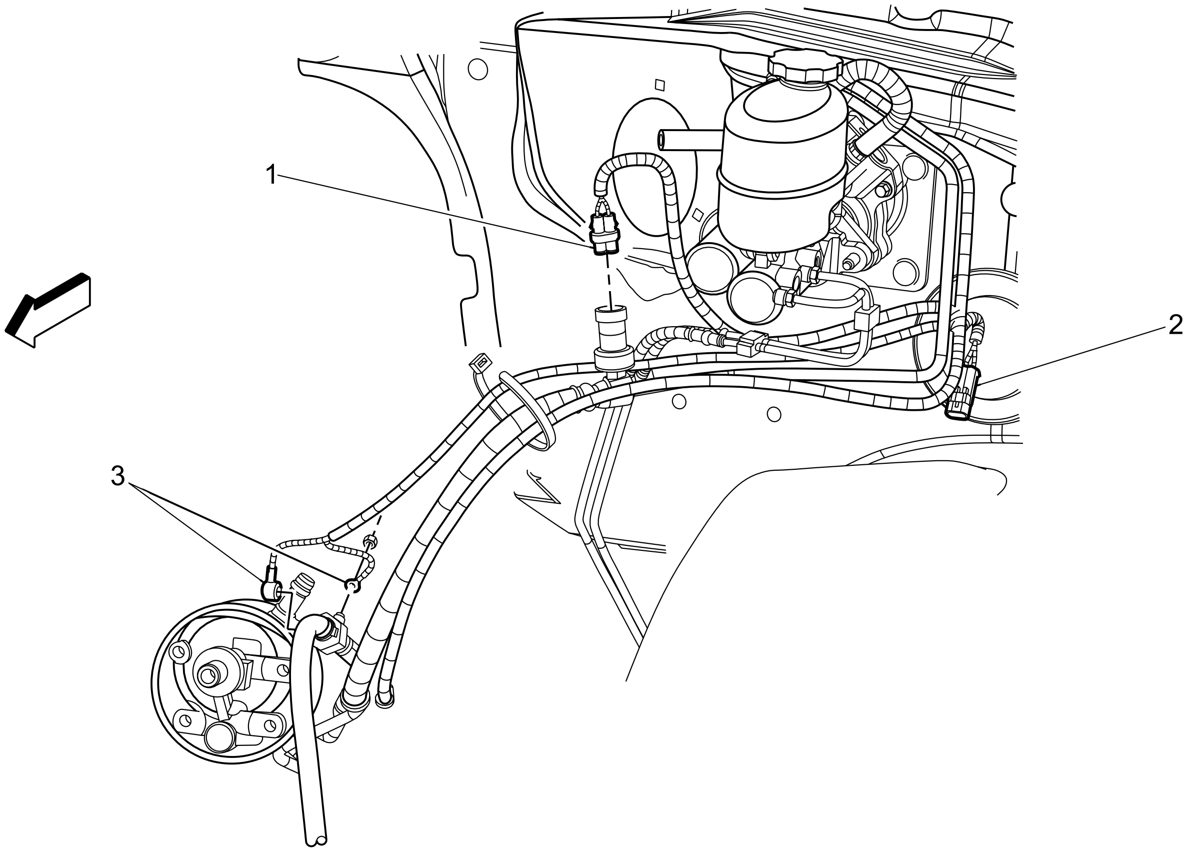
J368	J368 (KO7 with UFP)		In the LPG chassis harness, about 434.4 cm (171 inches) from G105	—	—
J369	J369 (KO7 with UFP)	KO7 with UFP	In the LPG chassis harness, about 7.62 cm (3 inches) from Primary Fuel Level Sensor	—	—
J370	J370 (UVC without UYS)	UVC without UYS	In the body harness, approximately 27.5 cm (10.8 in) from the Yaw and Lateral Accelerometer Sensor towards Fuse Block - Body	—	—
J370	J370 (Cutaway) (UVC without UYS)	UVC without UYS Cutaway	In the body harness, approximately 29 cm (13.4 in) from the Fuse Block - Body towards the Yaw and Lateral Accelerometer Sensor	—	—
J371	J371 (UVC without UYS)	UVC without UYS	In the body harness, approximately 32.5 cm (12.8 in) from the Yaw and Lateral Accelerometer Sensor towards Fuse Block - Body	—	—
J371	J371 (Cutaway) (UVC without UYS)		In the body harness, approximately 34 cm (11.4 in) from the Fuse Block - Body towards the Yaw and Lateral Accelerometer Sensor	—	—
J372	J372 (UVC without UYS)		In the body harness, approximately 22.5 cm (8.9 in) from the Yaw and Lateral Accelerometer Sensor towards Fuse Block - Body	—	—
J372	J372 (Cutaway) (UVC without UYS)		In the body harness, approximately 24 cm (9.5 in) from the Fuse Block - Body towards the Yaw and Lateral Accelerometer Sensor	—	—
J401	J401 (Passenger or Cargo) (C36 or C49)		In the body harness, in the left rear of the vehicle, approximately 21 cm (8 in) from the X401 breakout	—	—
J402	J402		In the chassis harness, left frame, approximately 20 cm (7.87 in) from the G400 breakout towards the EBCM connector	*Chassis Harness Routing (LC8, LMF, LU3, L20, or L96)*	—

J403	J403 (Passenger or Cargo)		In the body harness, left rear of the passenger compartment, approximately 18.5 cm (7 in) from the X402 breakout	*Body Harness Routing - Splices (Passenger or Cargo)*	—
J404	J404 (LGH)		—	*Chassis Harness Routing (LGH)*	—
J404	J404 (LU3, L20, LMF, L96, or LC8)		In the chassis harness, left frame, approximately 10 cm (4 in) from the G400 breakout towards the EBCM connector	—	—
J405	J405 (C36 or C69)		In the rear HVAC harness, left rear of the passenger compartment, approximately 13 cm (5.31 in) from the auxiliary blower motor relay breakout towards X409	—	—
J407	J407 (Passenger)		In the rear headliner harness, center of the headliner, approximately 6.5 cm (2.5 in) from X304 towards the rear courtesy/reading lamp connector	—	—
J410	J410 (Passenger or Cargo)		In the body harness, in the left rear of the vehicle, approximately 47 cm (18 in) from the X401 breakout	*Body Harness Routing - Splices (Passenger or Cargo)*	—
J411	J411 (C69)		In the rear HVAC harness, left rear of the passenger compartment, approximately 20 cm (8 in) from the blower motor relay breakout, towards X409	—	—
J412	J412 (C36 or C69)		In the rear HVAC harness, left rear of the passenger compartment, approximately 7 cm (2.8 in) from the blower motor relay breakout towards X409	—	—
J413	J413 (C36 without C69)		In the rear HVAC harness, left rear of the passenger compartment, approximately 10 cm (4 in) from the auxiliary blower motor resistor assembly breakout	—	—
J420	J420 (UD7)		In the rear bumper harness, approximately 57 cm (22 in) from the right rear middle object alarm sensor towards the left rear corner object alarm sensor	—	—

J421	J421 (UD7)		In the rear bumper harness, approximately 15 cm (6 in) from the left rear corner object alarm sensor towards the right rear middle object alarm sensor	—	—
J430	J430 (KO7 with UFM)		In the LPG Fuel Tank harness, about 1778 mm (70 inches) from X350	—	—
J431	J431 (KO7 with UFM)		In the LPG Fuel Tank harness, about 152.4 mm (6 inches) from X180	—	—
J432	J432 (KO7 with UFM)		In the LPG Fuel Tank harness, about 279.4 mm (11 inches) from Fuel Supply Solenoid	—	—
J450	J450 (Passenger or Cargo)		In the body harness, in the rear of the vehicle, approximately 10 cm (3.93 in) from the X415 breakout	*Body Harness Routing - Splices (Passenger or Cargo)*	—
J451	J451 (Passenger or Cargo)		In the body harness, in the rear of the vehicle, approximately 17 cm (6.5 in) from the X415 breakout	*Body Harness Routing - Splices (Passenger or Cargo)*	—
J452	J452 (Passenger or Cargo)		In the body harness, approximately 17 cm (6.5 in) from the X419 breakout	*Body Harness Routing - Splices (Passenger or Cargo)*	—
J453	J453 (Passenger or Cargo)		In the body harness, in the left rear of the vehicle, approximately 10 cm (4 in) from the X419 breakout	*Body Harness Routing - Splices (Passenger or Cargo)*	—
J460	J460 (Cutaway with NE7 and UY7)		In the chassis harness, in the rear of the vehicle, approximately 15.5 cm (6.1 inches) from trailer harness breakout	—	—
J500	J500 (A31, DE5 or DE7)		In the left front door harness, driver door, approximately 7 cm (3 in) from the left front door speaker breakout	*Front and Rear Headliner Harness Routing*	—
J501	J501 (AU3)		In the left front door harness, driver door, approximately 6 cm (2.36 in) from the driver outside rearview mirror breakout	*Front and Rear Headliner Harness Routing*	—
J502	J502 (DE5 or DE7)		In the left front door harness, driver door, approximately 4 cm (2 in) from the left front door speaker breakout	*Front and Rear Headliner Harness Routing*	—

J600	J600 (A31, DE5 or DE7		In the right front door harness, front passenger door, approximately 4 cm (2 in) from the passenger outside rearview mirror breakout	*Front and Rear Headliner Harness Routing*	—
J601	J601 (AU3)		In the right front door harness, front passenger door, approximately 5 cm (2 in) from the passenger outside rearview mirror breakout	—	—
J901	J901 (Passenger or Cargo)		In the rear cargo door harness, approximately 4 cm (1.5 in) from the X902 breakout	—	—
J902	J902 (Passenger or Cargo)		In the right rear door harness, right rear cargo door, approximately 12 cm (4.7 in) from the X902 breakout	*Rear Cargo Doors Harness Routing (Passenger or Cargo)*	—
J903	J903 (Cutaway with 5H4)		In the rear lamp harness, approximately 25 cm (10 in) from X903	—	—
JX200	JX200		In the instrument panel harness, left front side of the floor, where the carpet ends behind the brake pedal next to JX250	*Instrument Panel Harness Routing - Passenger Compartment*	*JX200*
JX250	JX250		In the instrument panel harness, left front side of the floor, where the carpet ends behind the brake pedal next to JX200	*Instrument Panel Harness Routing - Passenger Compartment*	*JX250*
JX347	JX347		In the body harness, left side of the passenger compartment, attached to the lower left B-pillar part of G347	*Body Harness Routing - Left Front Passenger Compartment*	*JX347*
JX348	JX348		In the body harness, right side of the passenger compartment, attached to the lower right B-pillar part of G348	*Body Harness Routing - Right Front Passenger Compartment*	*JX348*

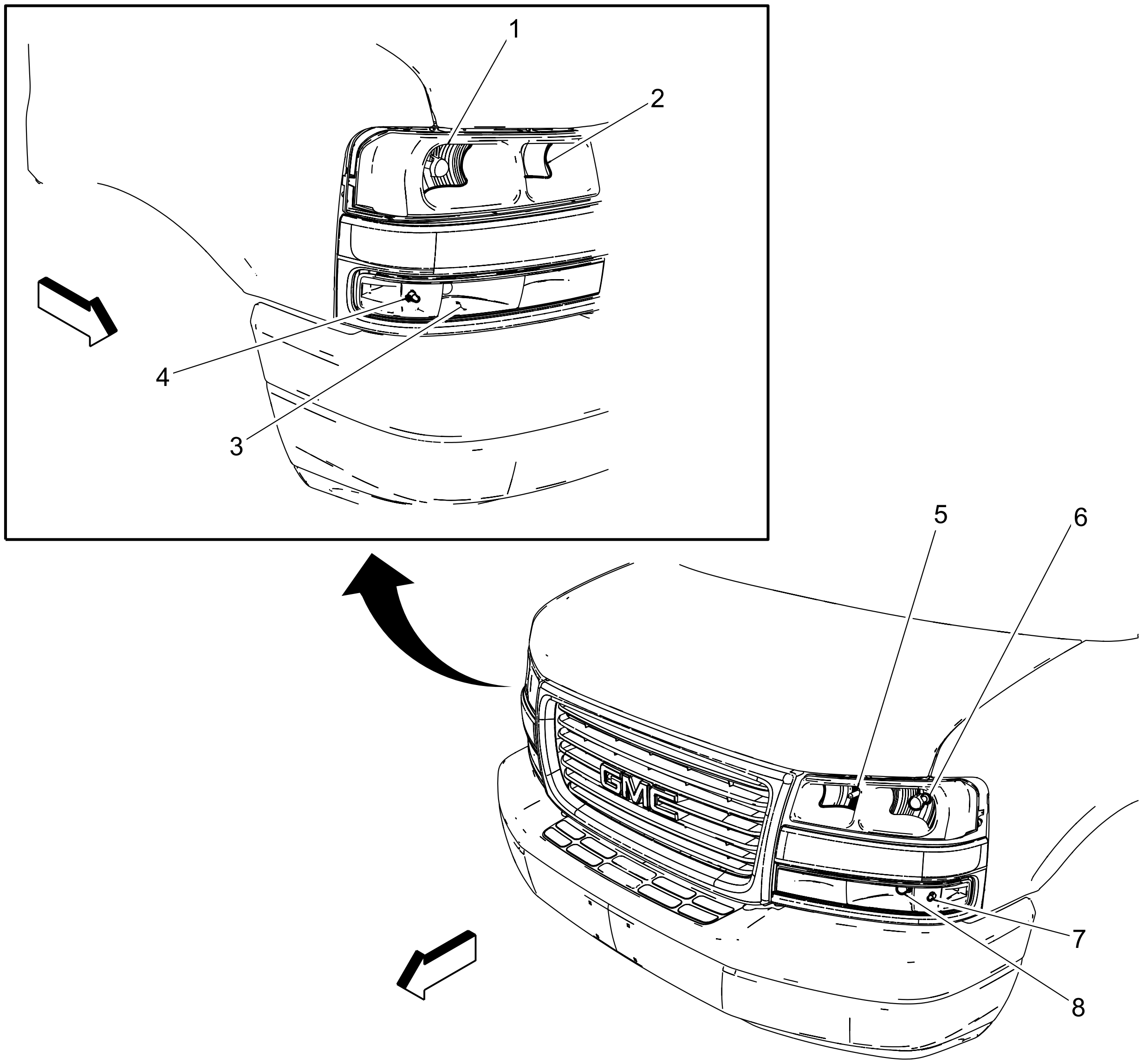
Brake Booster Fluid Alarm Switches (UJ1)



Items

1. B19A Brake Booster Fluid Pressure Alarm Switch (UJ1)
2. X141 (UJ1)
3. B133 Brake Booster Fluid Flow Alarm Switch (UJ1)

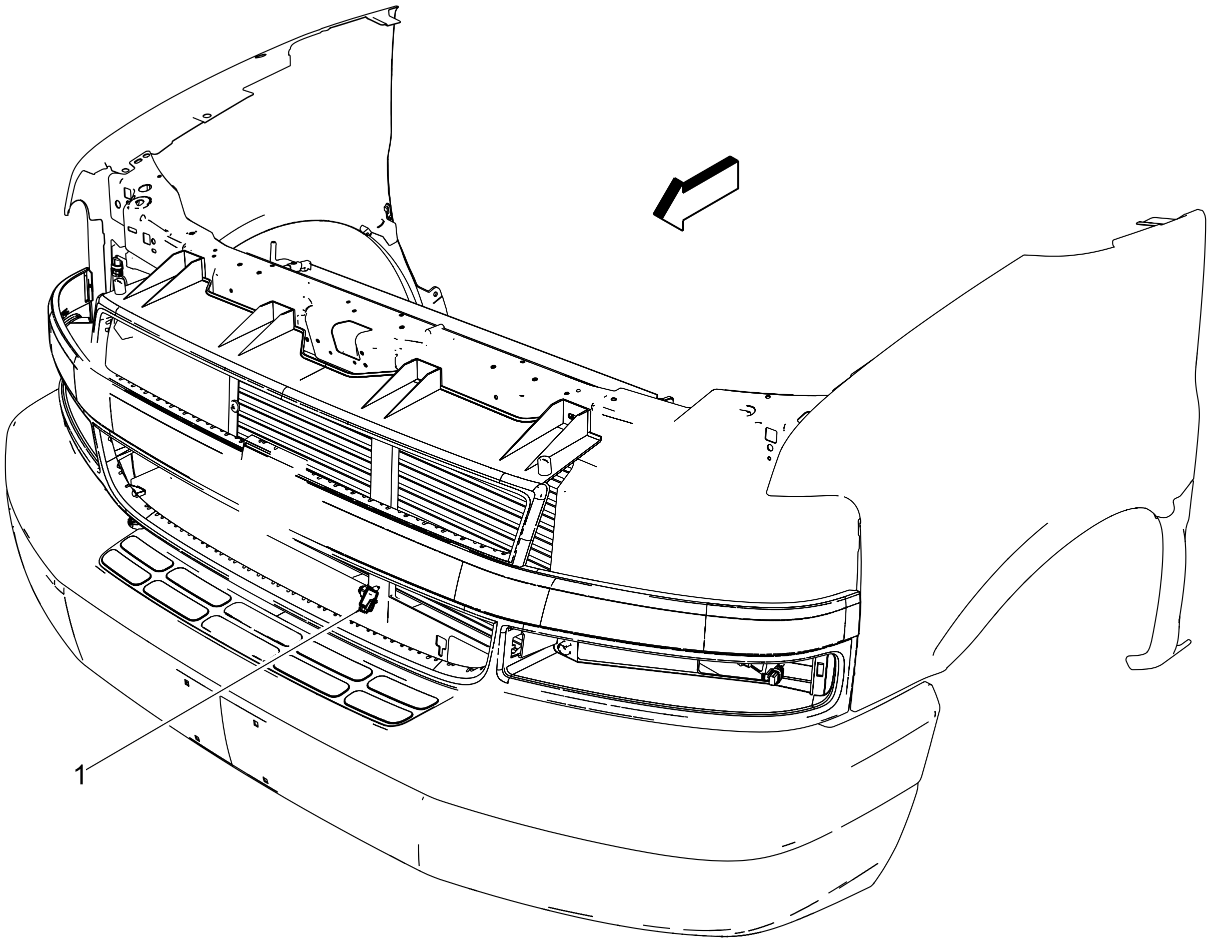
Front Exterior Lighting (Uplevel)



Items

1. E4H Headlamp - Right Low Beam
2. E4F Headlamp - Right High Beam
3. E4P Park/Turn Signal Lamp - Right
4. E2RF Side Marker Lamp - Right Front
5. E4E Headlamp - Left High Beam
6. E4G Headlamp - Left Low Beam
7. E2LF Side Marker Lamp - Left Front
8. E4N Park/Turn Signal Lamp - Left

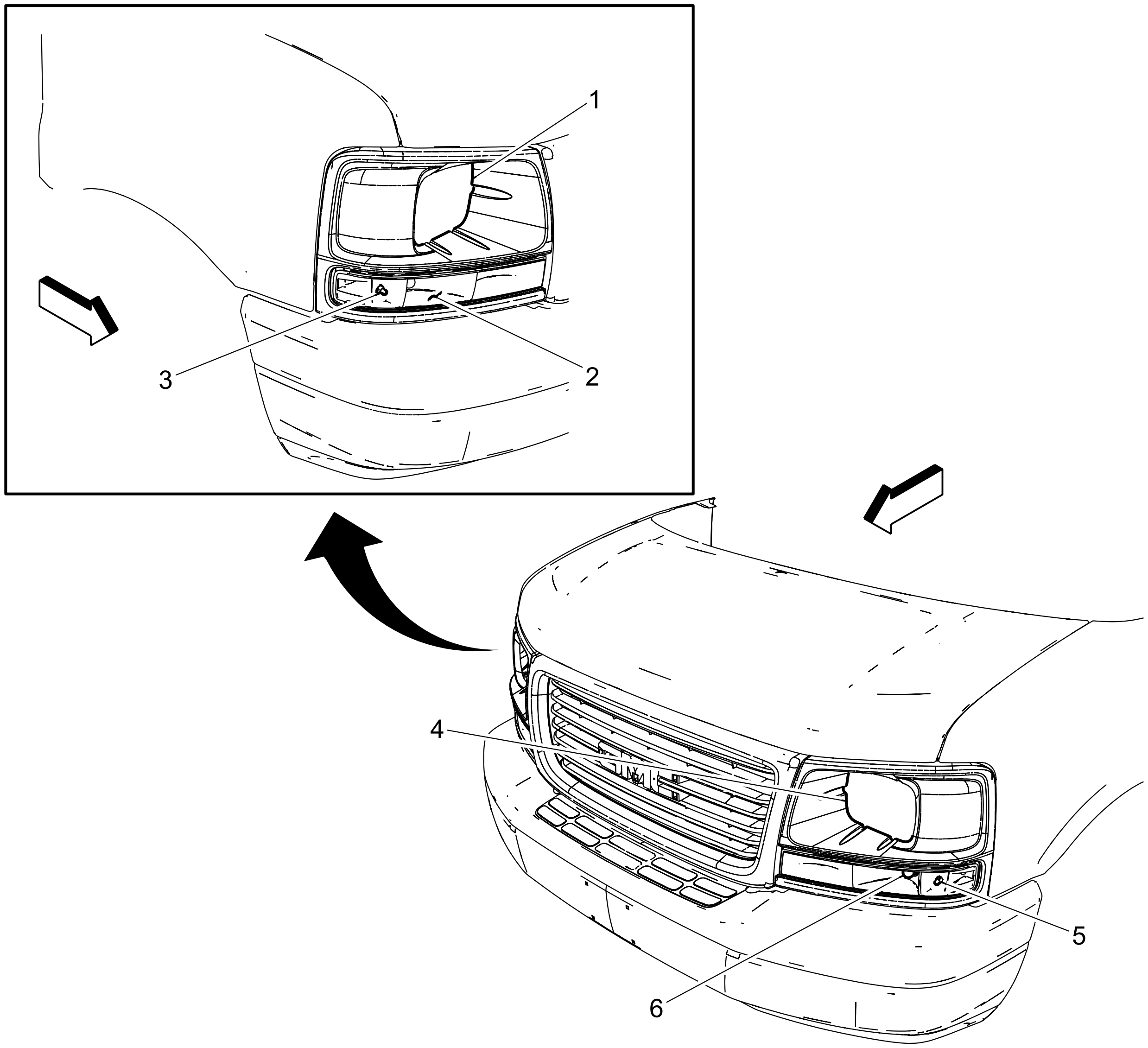
Ambient Air Temperature Sensor (UFA)



Items

1. B9 Ambient Air Temperature Sensor (UFA)

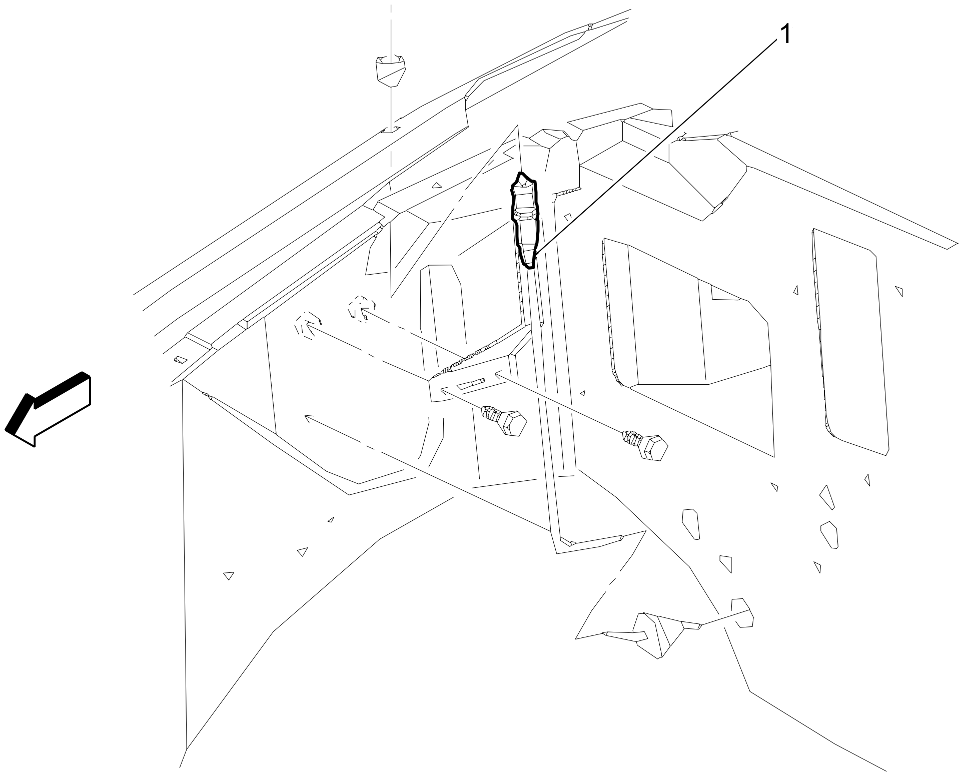
Front Exterior Lighting (Base)



Items

1. E13R Headlamp - Right
2. E4P Park/Turn Signal Lamp - Right
3. E2RF Side Marker Lamp - Right Front
4. E13L Headlamp - Left
5. E2LF Side Marker Lamp - Left Front
6. E4N Park/Turn Signal Lamp - Left

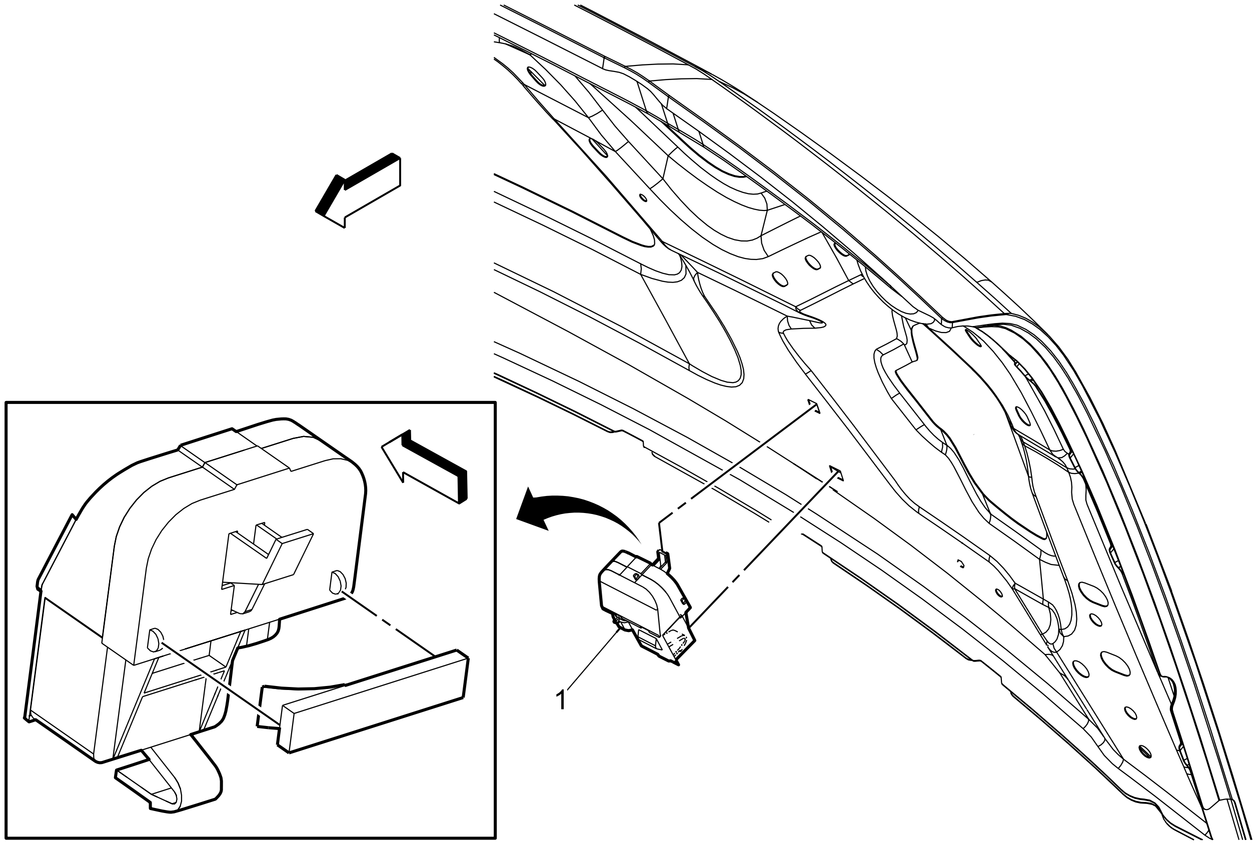
Right Rear of the Engine Compartment



Items

1. T2 Antenna (except UL5)

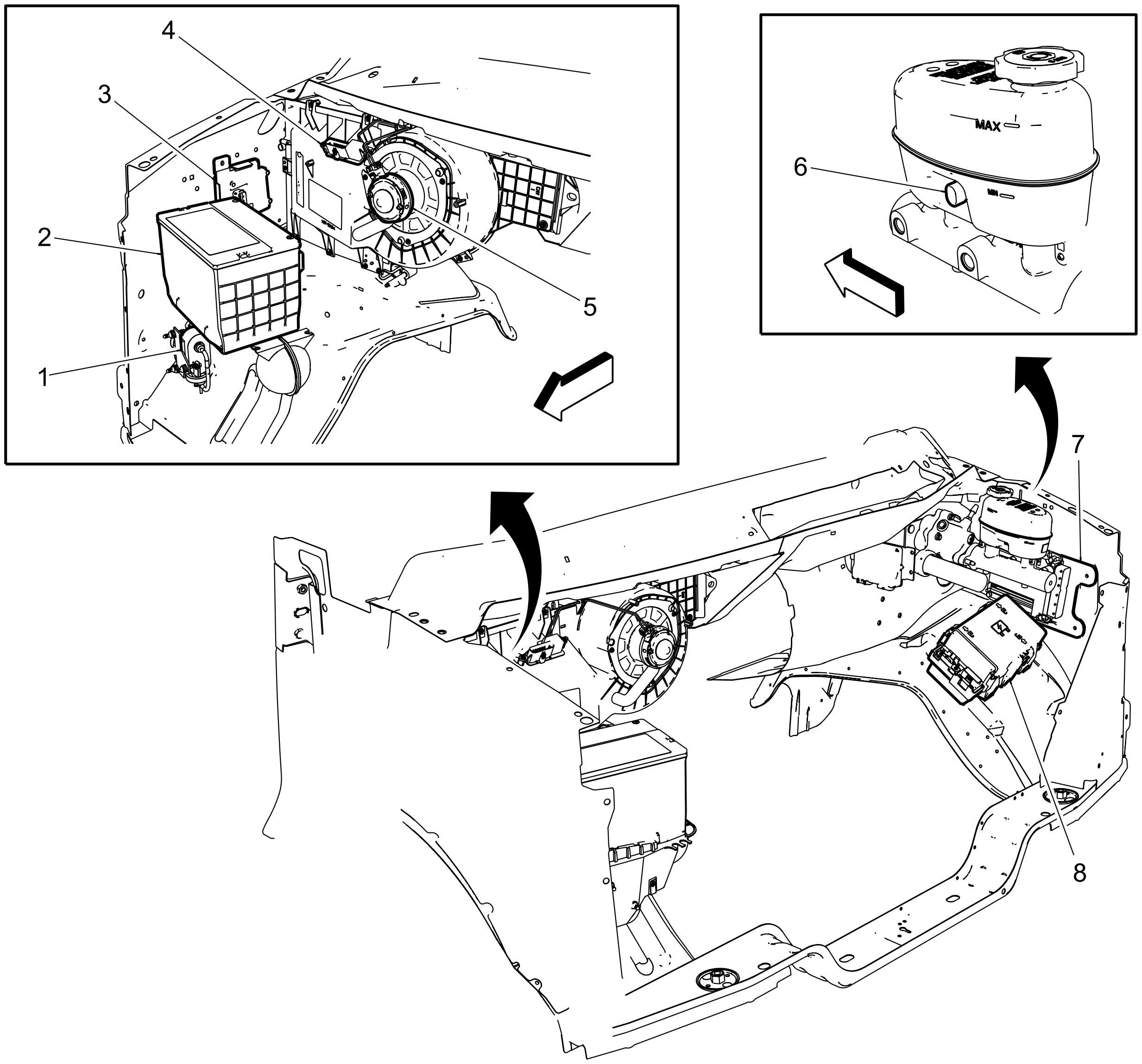
Underhood Lamp



Items

1. E22 Underhood Lamp

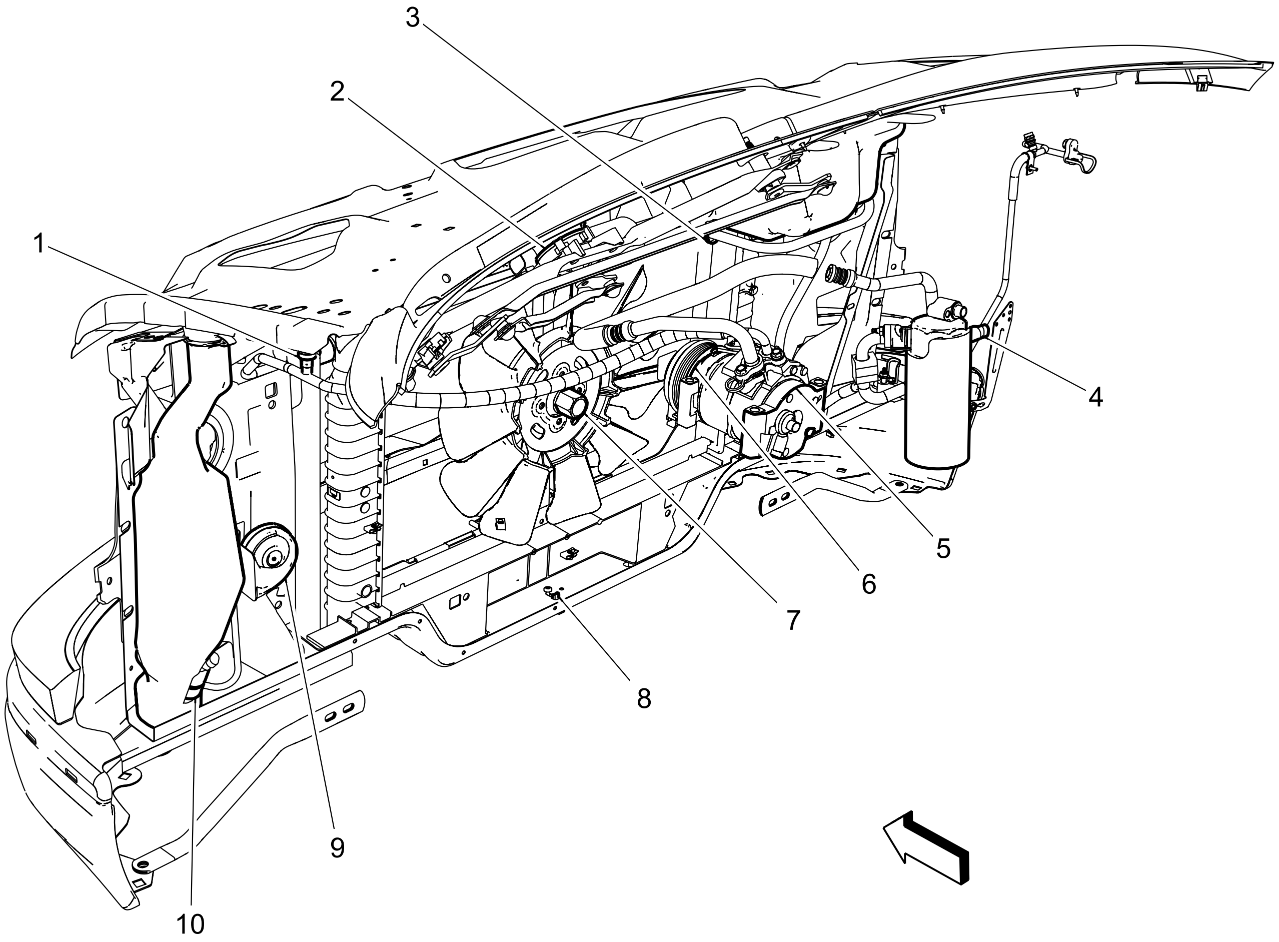
Engine Compartment



Items

1. G34 Evaporative Emission System Leak Detection Pump
2. C1 Battery
3. K71 Transmission Control Module (M30)
4. R3 Blower Motor Resistor
5. M8 Blower Motor
6. B20 Brake Fluid Level Switch
7. K20 Engine Control Module (ECM)
8. X50A Fuse Block - Underhood

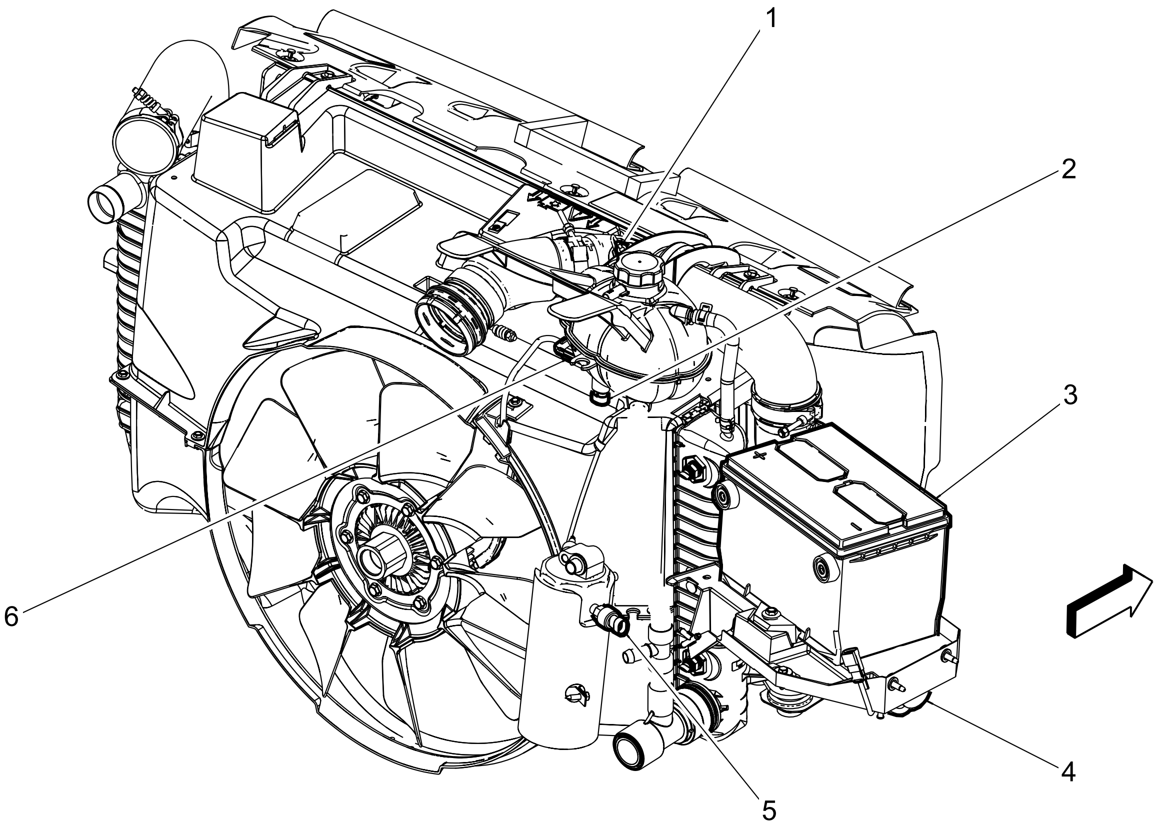
Front of Engine Compartment



Items

1. B1 A/C Refrigerant Pressure Sensor (C60)
2. M75 Windshield Wiper Motor
3. B33 Engine Coolant Level Switch (LGH)
4. B1B A/C Low Side Pressure Switch (C60)
5. Q2 A/C Compressor Clutch
6. Q2 A/C Compressor Clutch
7. G10 Cooling Fan Motor (LGH)
8. B59 Front Impact Sensor
9. P13 Horn Assembly
10. G24 Windshield Washer Pump

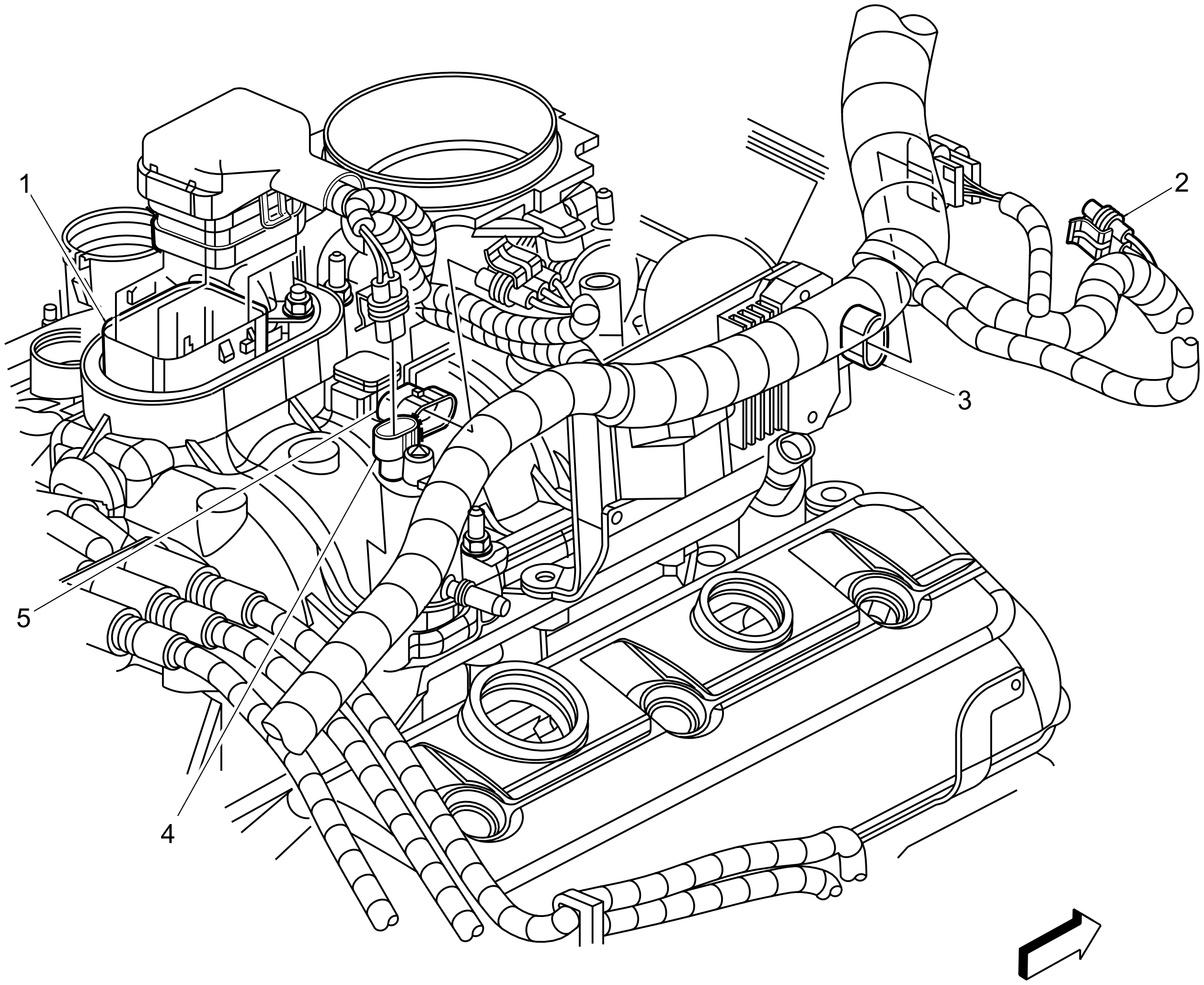
Front of Engine Compartment Components (LGH)



Items

1. B193B Charge Air Cooler Outlet Temperature Sensor (LGH)
2. B33 Engine Coolant Level Switch (LGH)
3. C1 Battery
4. G34 Evaporative Emission System Leak Detection Pump
5. B1B A/C Low Side Pressure Switch (C60)
6. X142 (LGH)

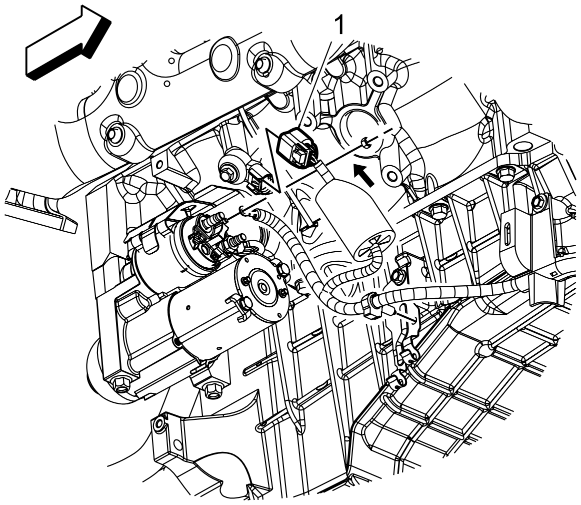
Right Side of the Engine (LU3)



Items

1. Q7 Fuel Injector Fuel Meter Body (LU3)
2. G13 Generator
3. K35 Ignition Coil Module (LU3)
4. Q12 Evaporative Emission Purge Solenoid Valve (LU3, L20, LMF, L96 or LC8)
5. B74 Manifold Absolute Pressure Sensor

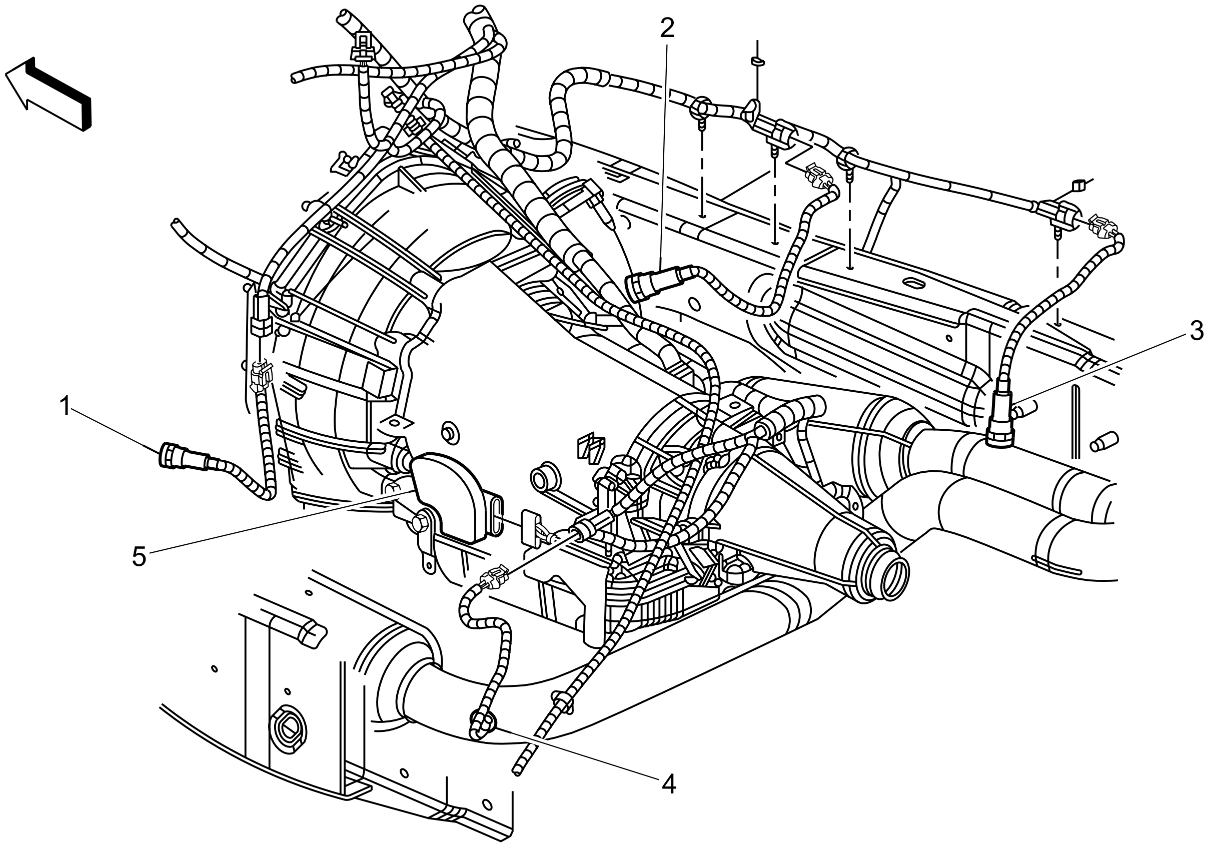
Lower Right of the Engine (LU3)



Items

1. B68A Knock Sensor 1

Rear of the Engine (LU3 or LMF)



Items

1. B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (LU3, L20, LMF, L96 or LC8)

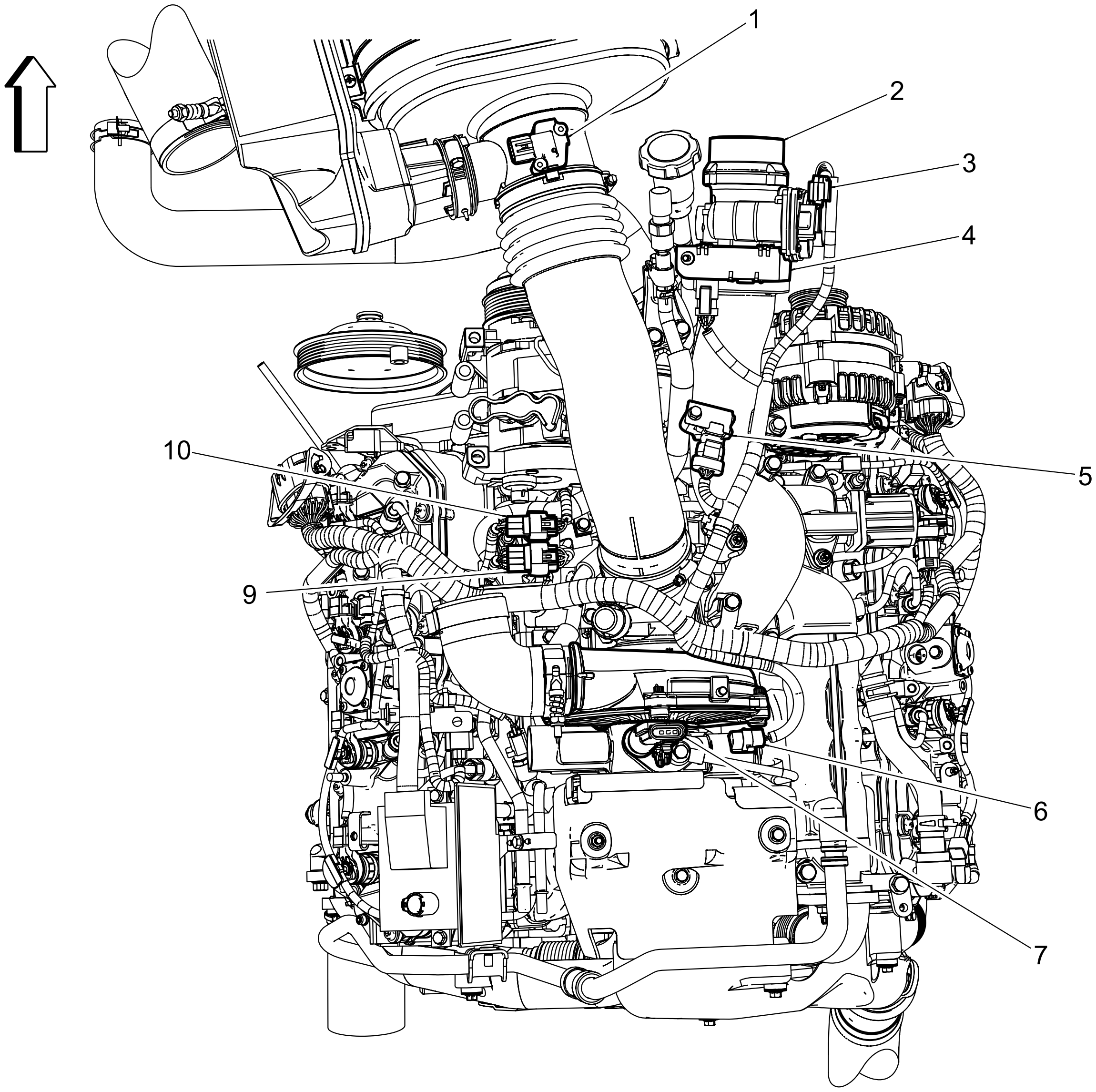
2. B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (LU3, L20, LMF, L96 or LC8)

3. B52F Heated Oxygen Sensor - Bank 2 Sensor 2 (LU3, L20, LMF, L96 or LC8)

4. B52D Heated Oxygen Sensor - Bank 1 Sensor 2 (LU3, L20, LMF, L96 or LC8)

5. B81 Park/Neutral Position Switch (M30)

Upper Engine (LGH)



Items

1. B75B Mass Air Flow/Intake Air Temperature Sensor

2. Q38 Throttle Body (LU3, L20, LMF, L96 or LC8)

3. Q20 Intake Air Flow Valve

4. E24 Intake Air Heater (LGH)

5. B74 Manifold Absolute Pressure Sensor

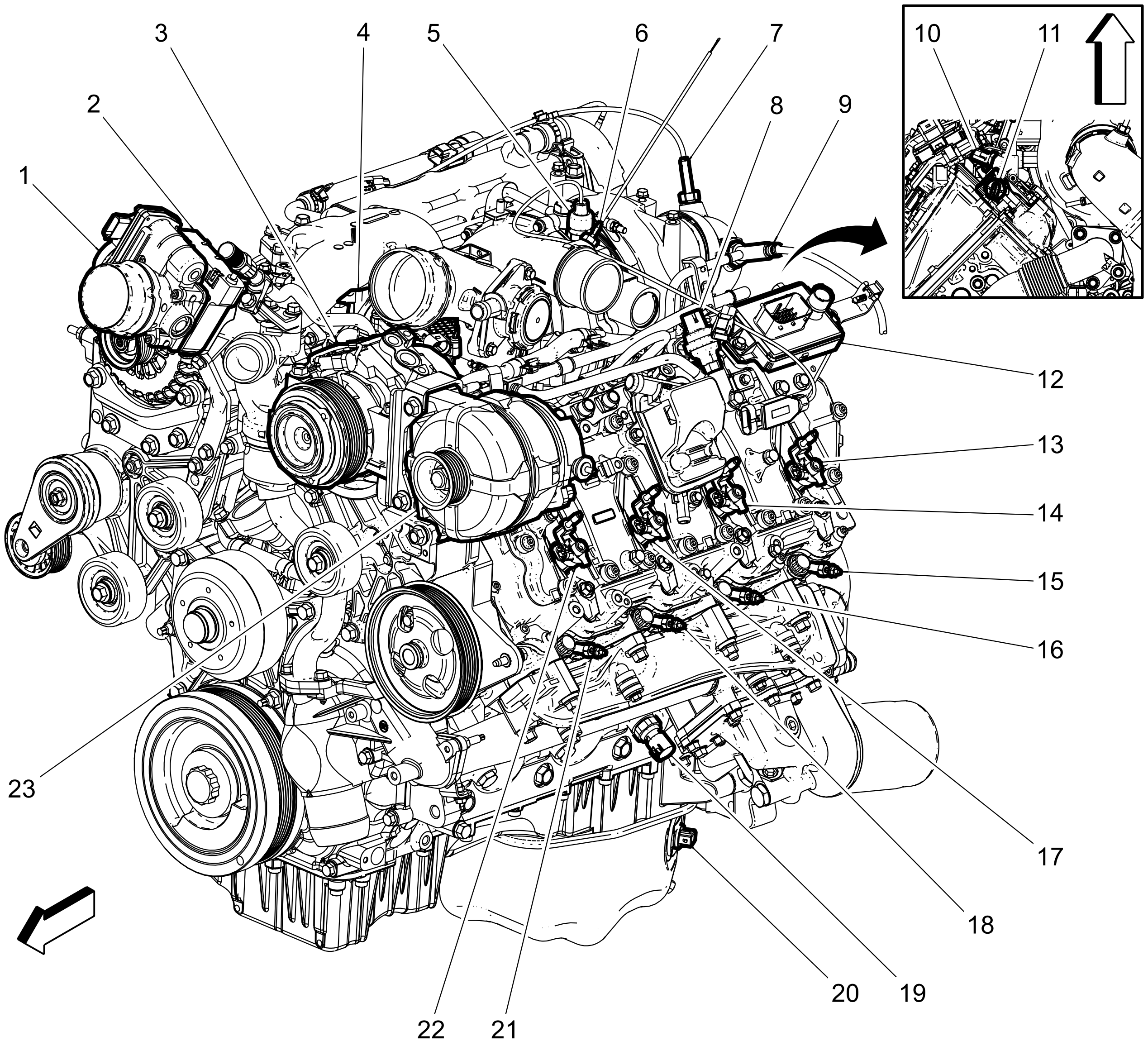
6. Q41 Turbocharger Vane Position Control Solenoid Valve (LGH)

7. B112 Turbocharger Vane Position Sensor (LGH)

9. X111

10. X110 (LGH)

Left Front of Engine Components (LGH)

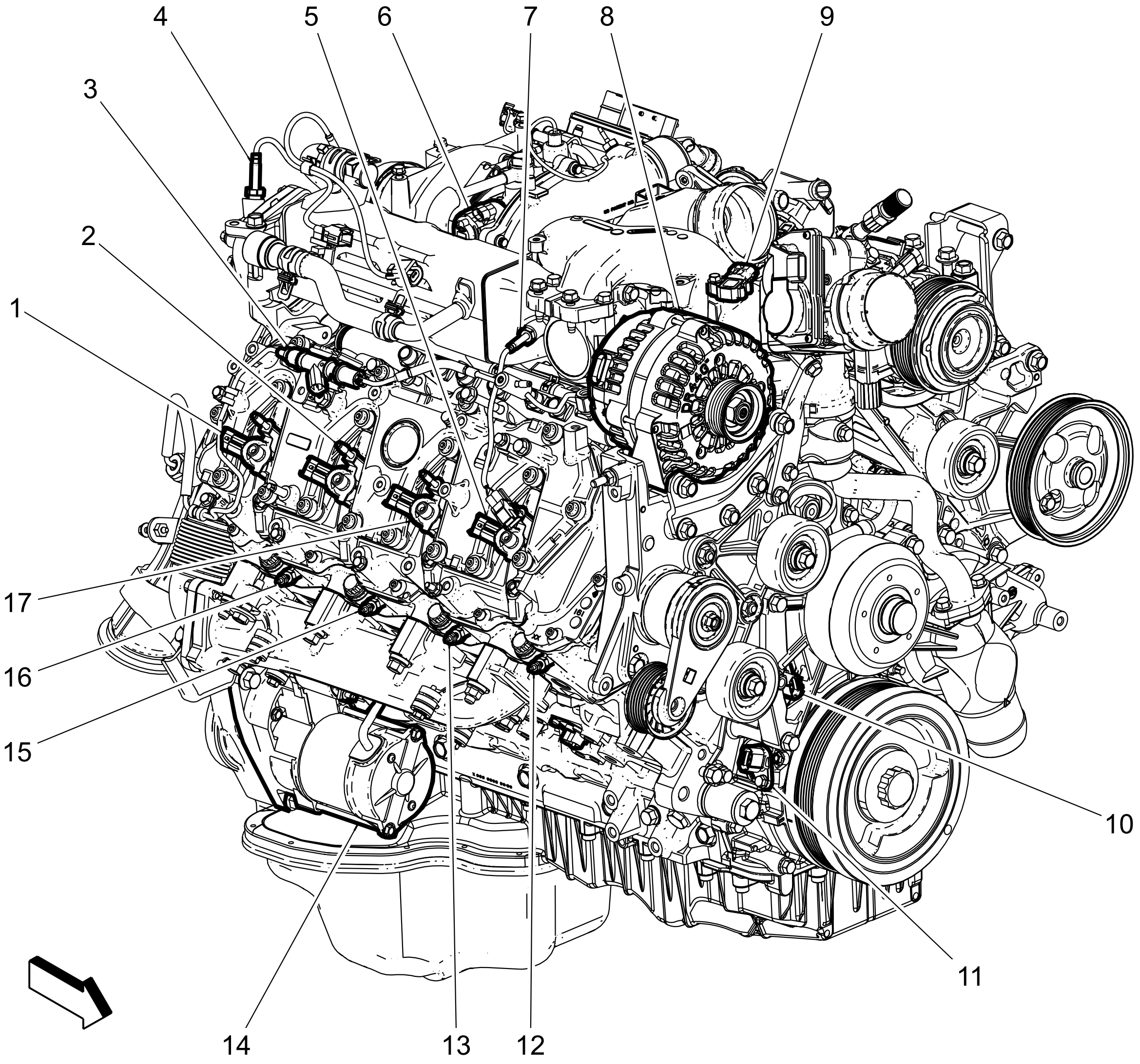


Items

1. Q20 Intake Air Flow Valve
2. E24 Intake Air Heater (LGH)
3. Q2 A/C Compressor Clutch
4. Q14 Exhaust Gas Recirculation Valve (LGH)
5. B112 Turbocharger Vane Position Sensor (LGH)
6. B193A Charge Air Cooler Inlet Temperature Sensor (LGH)
7. B130A Exhaust Gas Recirculation Temperature Sensor 1 (LGH)
8. B215 Fuel Filter Pressure Switch (LGH)
9. B195A Nitrogen Oxides Sensor 1 (LGH)
10. B48B Fuel Temperature Sensor 2 (LGH)

10. B48B Fuel Temperature Sensor 2 (LGH)
11. B47B Fuel Rail Pressure Sensor
12. K34 Glow Plug Control Module (LGH)
13. Q17H Fuel Injector 8
14. Q17F Fuel Injector 6
15. E12H Glow Plug 8 (LGH)
16. E12F Glow Plug 6 (LGH)
17. Q17D Fuel Injector 4
18. E12D Glow Plug 4 (LGH)
19. B37B Engine Oil Pressure Sensor
20. B35 Engine Oil Level Switch (LGH)
21. E12B Glow Plug 2 (LGH)
22. Q17B Fuel Injector 2
23. G13 Generator

Right Front of Engine Components (LGH)



Items

1. Q17G Fuel Injector 7

2. Q17E Fuel Injector 5

3. Q67 Exhaust Aftertreatment Fuel Injector (LGH)

4. B131A Exhaust Temperature Sensor 1 (LGH)

5. Q17A Fuel Injector 1

6. Q41 Turbocharger Vane Position Control Solenoid Valve (LGH)

7. B130B Exhaust Gas Recirculation Temperature Sensor 2 (LGH)

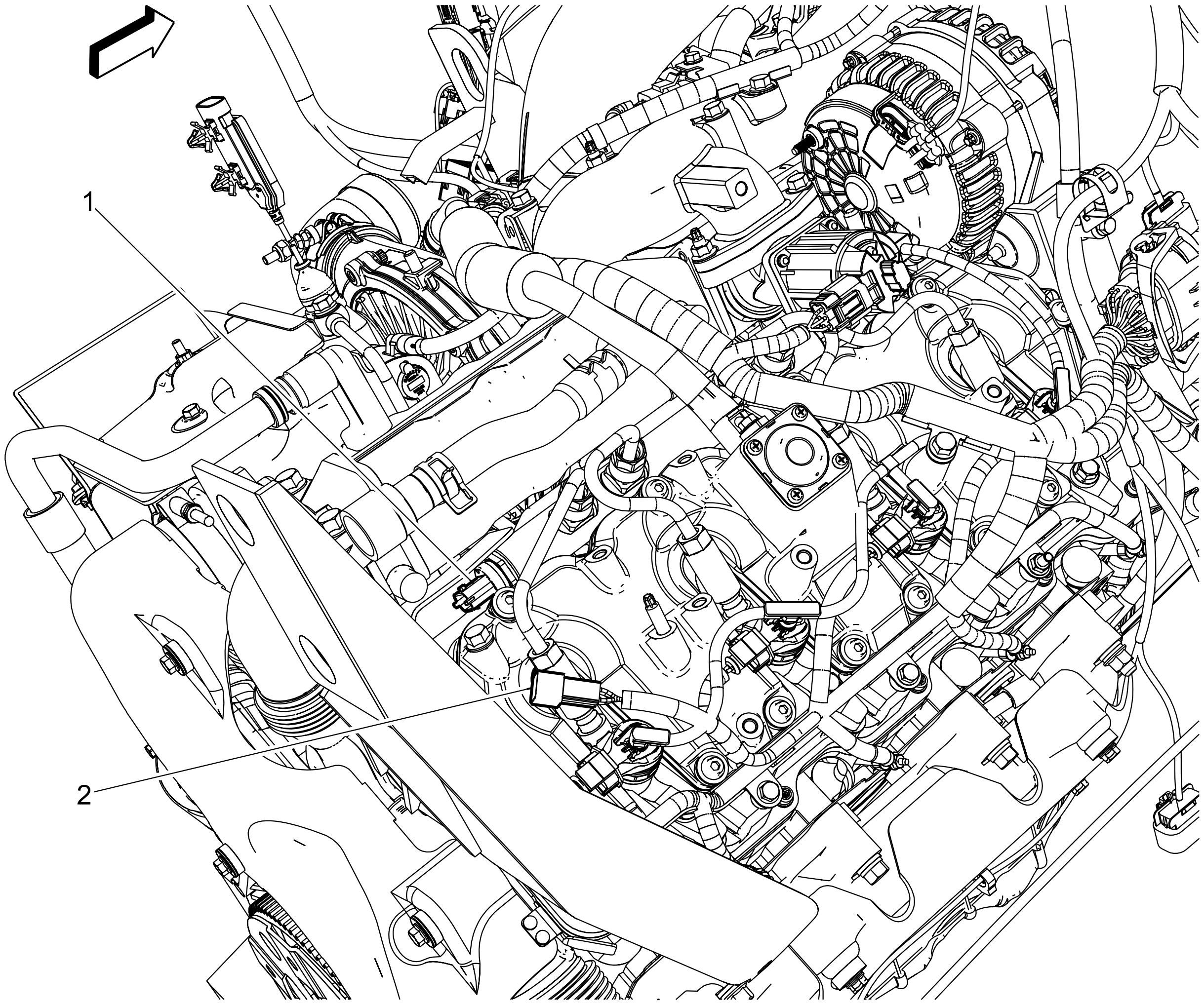
8. G13 Generator

9. B74 Manifold Absolute Pressure Sensor

10. B23 Camshaft Position Sensor

10. B23 Camshaft Position Sensor
11. B26 Crankshaft Position Sensor
12. E12A Glow Plug 1 (LGH)
13. E12C Glow Plug 3 (LGH)
14. M64 Starter Motor
15. E12E Glow Plug 5 (LGH)
16. E12G Glow Plug 7 (LGH)
17. Q17C Fuel Injector 3

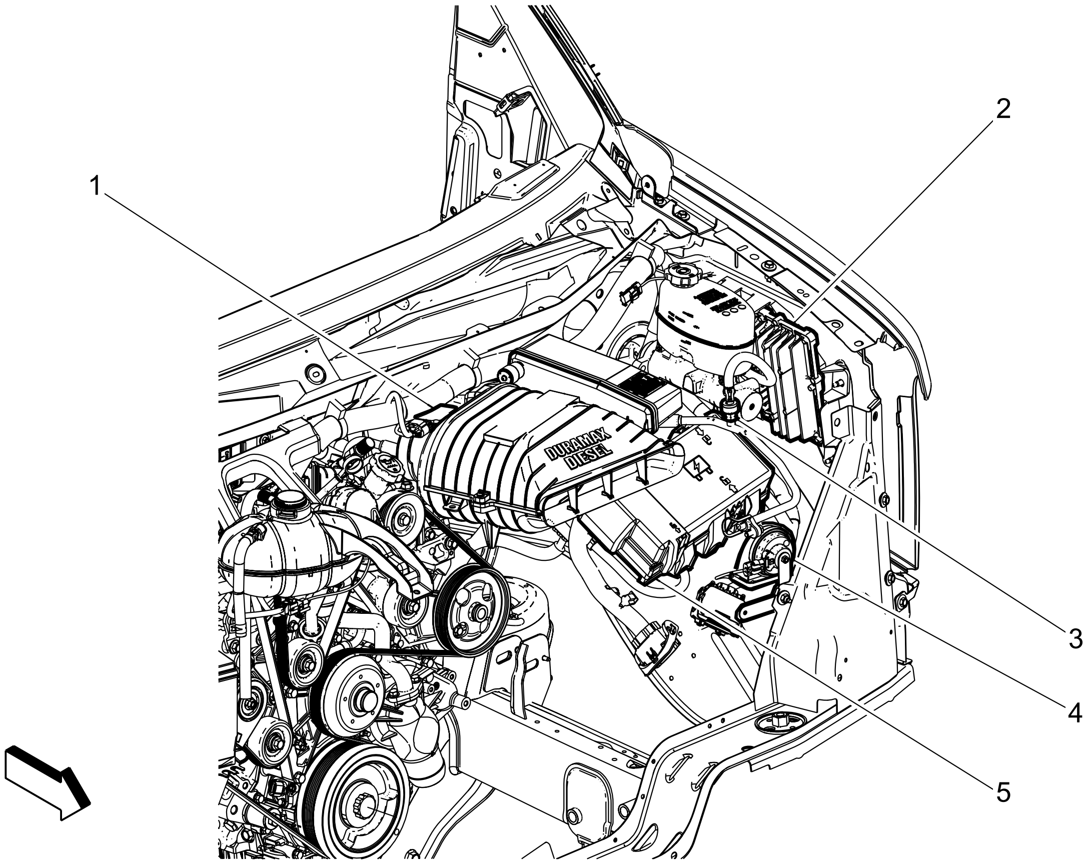
Top Rear of the Engine (LGH)



Items

1. B47B Fuel Rail Pressure Sensor
2. X112 (LGH)

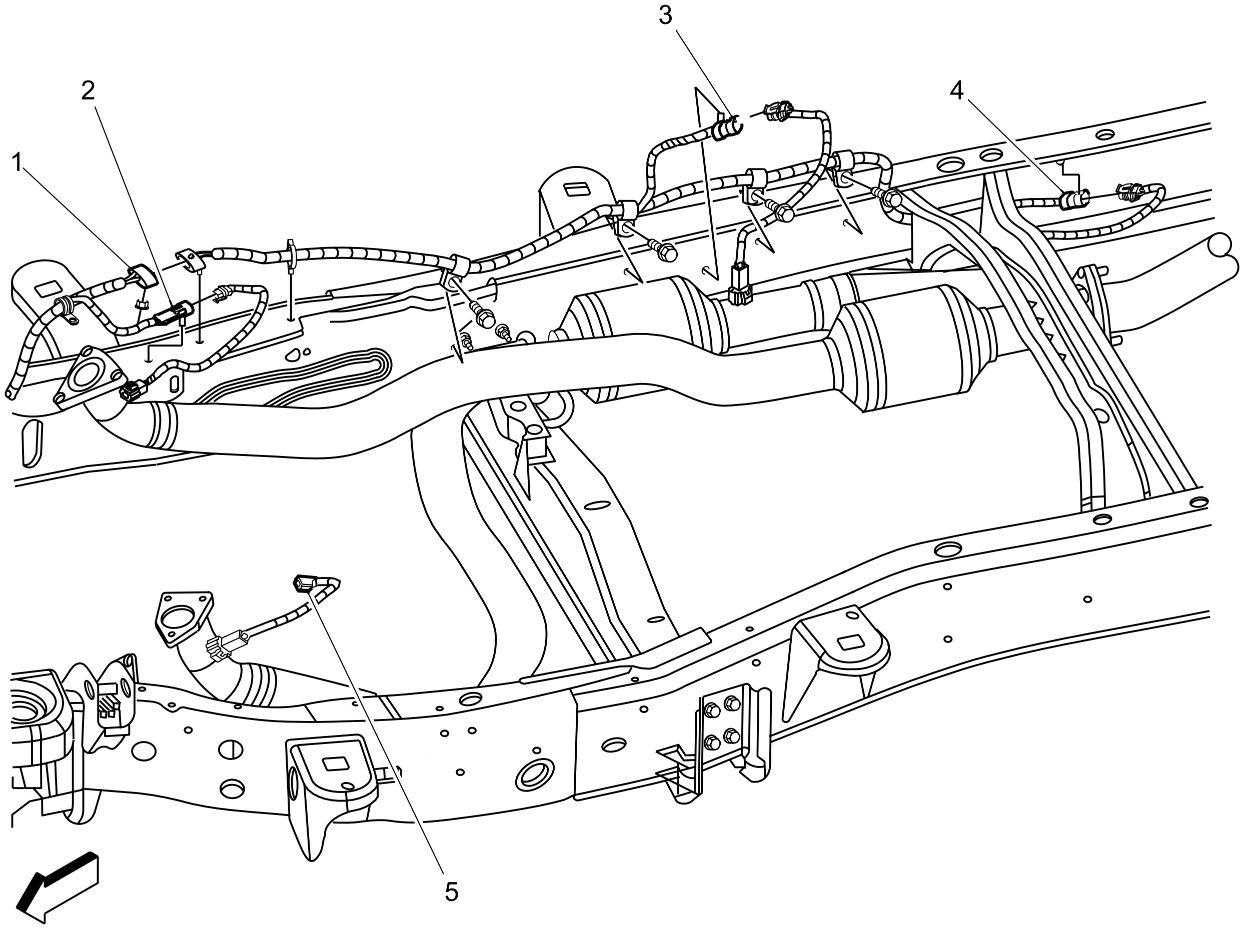
Engine Components (LGH)



Items

1. B75B Mass Air Flow/Intake Air Temperature Sensor
2. K20 Engine Control Module (ECM)
3. B1 A/C Refrigerant Pressure Sensor (C60)
4. P13 Horn Assembly
5. X50A Fuse Block - Underhood

Oxygen Sensors (LC8, L20, or L96)



Items

1. X128 (L20, L96 or LC8)

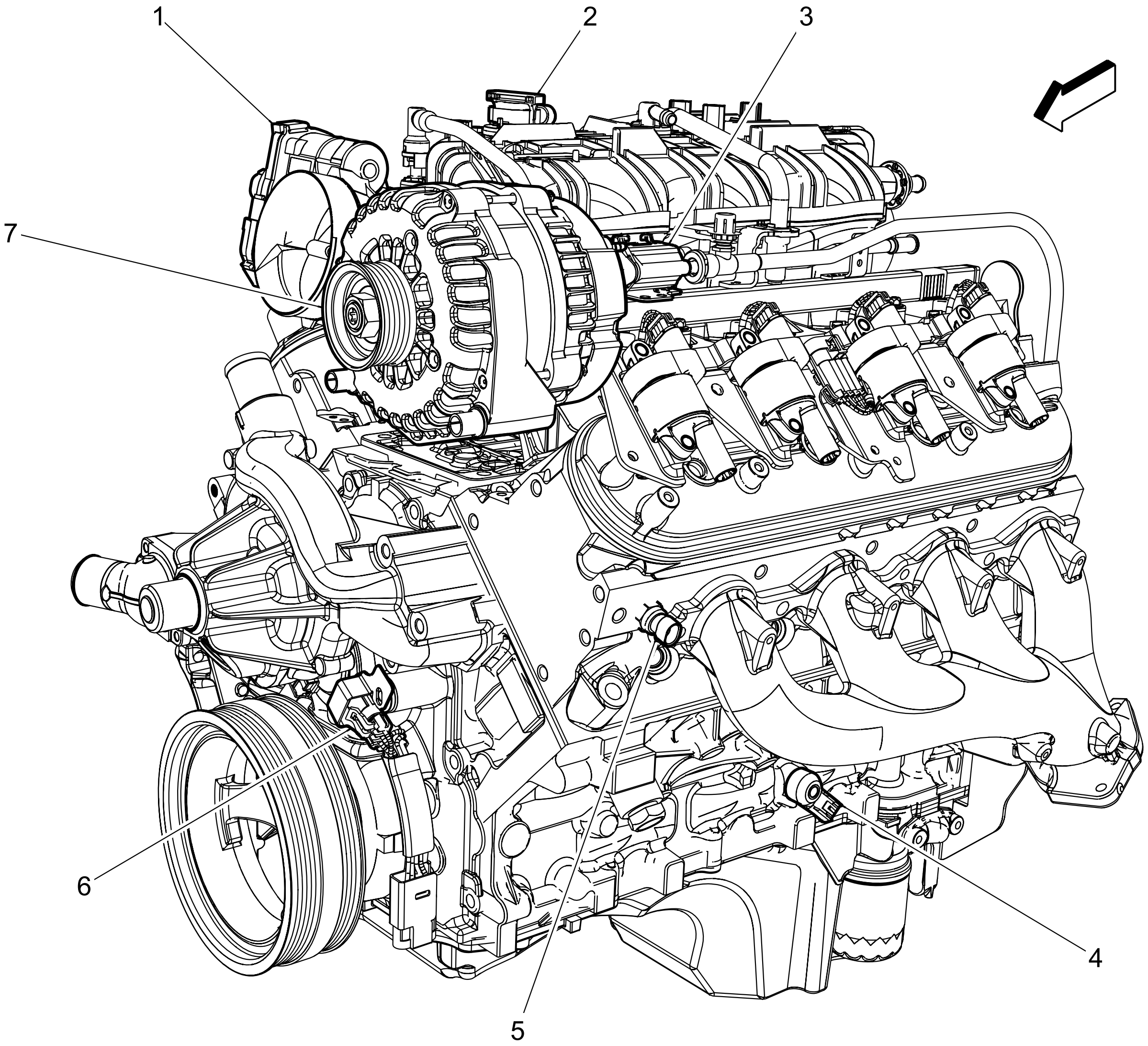
2. B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (LU3, L20, LMF, L96 or LC8)

3. B52D Heated Oxygen Sensor - Bank 1 Sensor 2 (LU3, L20, LMF, L96 or LC8)

4. B52F Heated Oxygen Sensor - Bank 2 Sensor 2 (LU3, L20, LMF, L96 or LC8)

5. B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (LU3, L20, LMF, L96 or LC8)

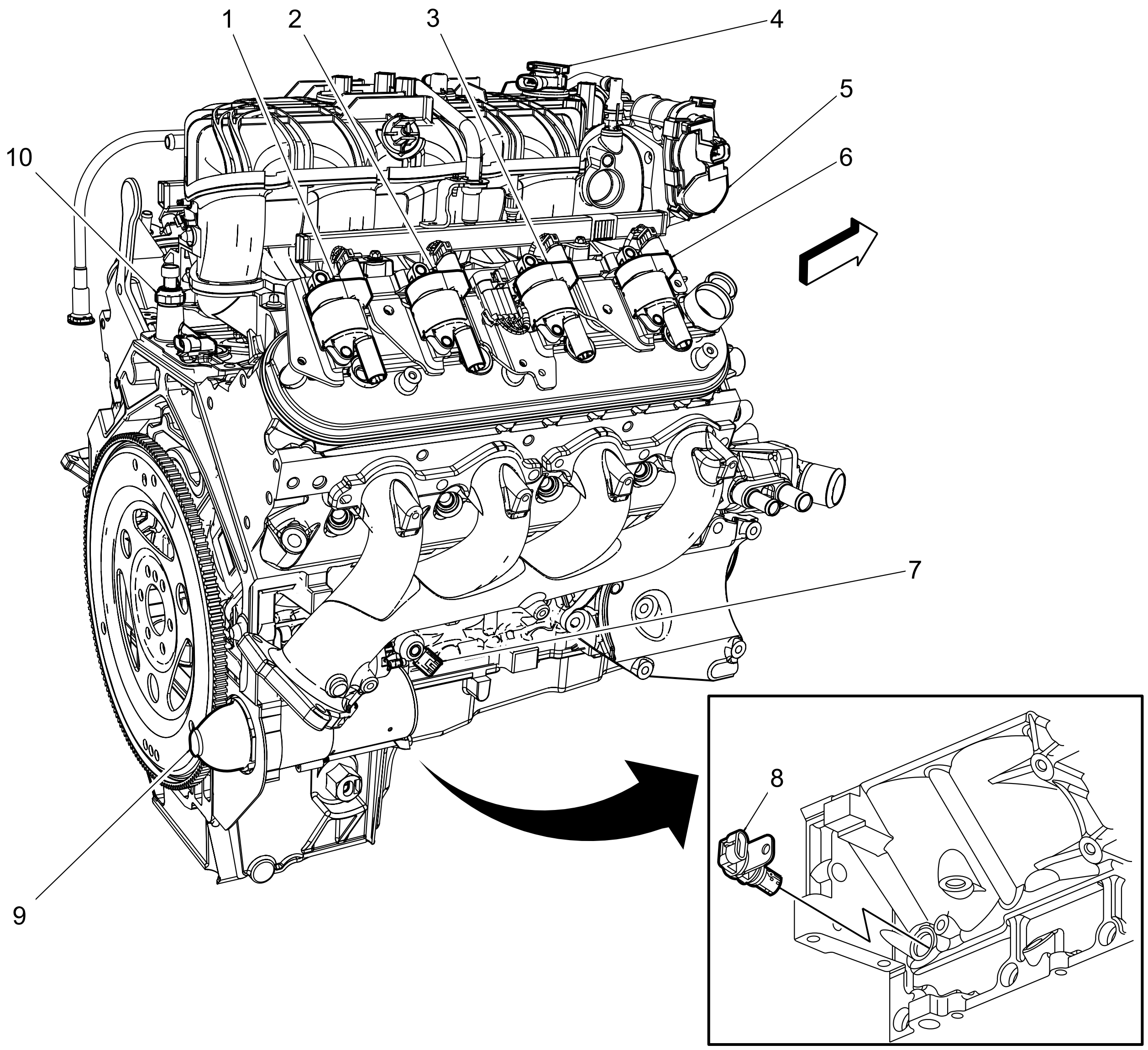
Front of the Engine Components (LC8, LMF, L20, or L96)



Items

1. Q38 Throttle Body (LU3, L20, LMF, L96 or LC8)
2. B74 Manifold Absolute Pressure Sensor
3. Q12 Evaporative Emission Purge Solenoid Valve (LU3, L20, LMF, L96 or LC8)
4. B68B Knock Sensor 2
5. B34 Engine Coolant Temperature Sensor
6. B23 Camshaft Position Sensor
7. G13 Generator

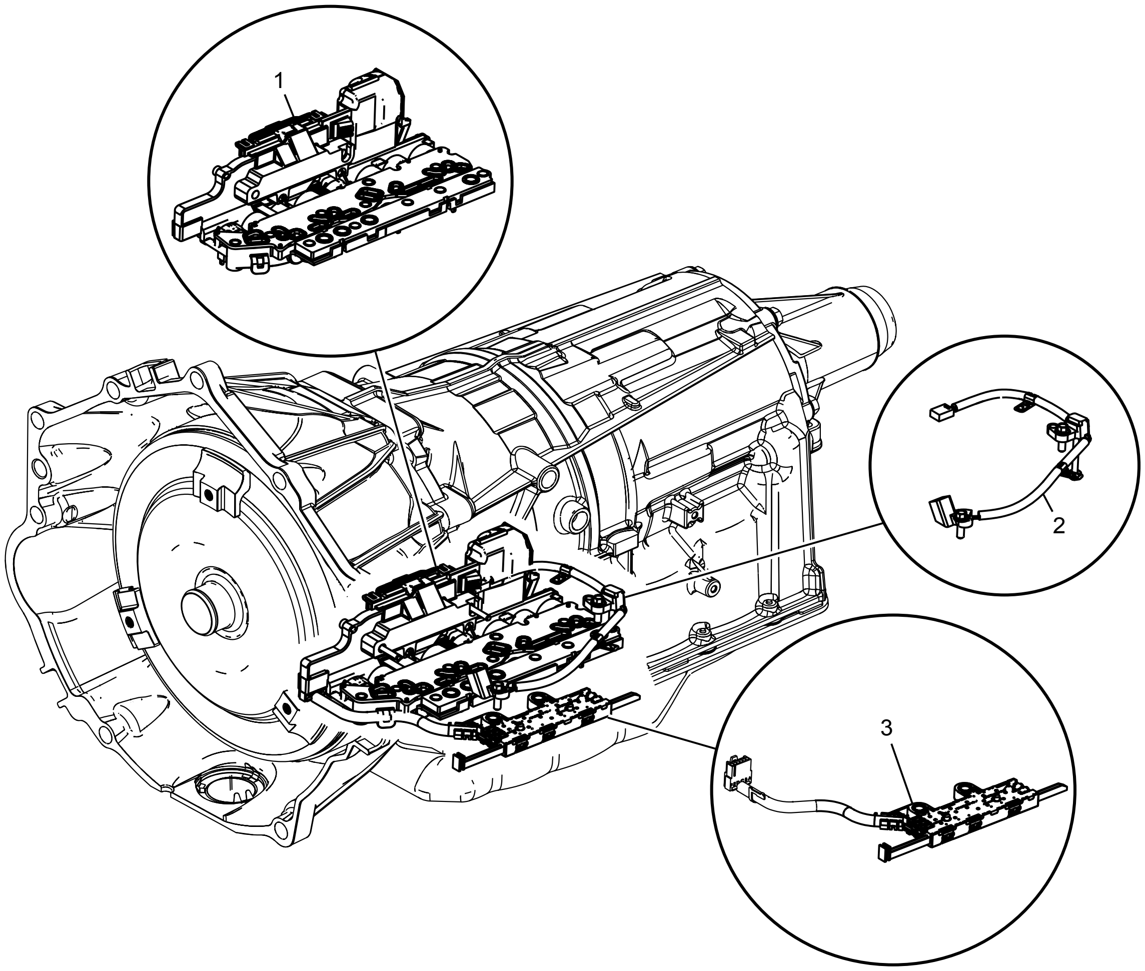
Right Side of the Engine Components (LC8, LMF, L20, or L96)



Items

1. T8H Ignition Coil 8 (L20, LMF, L96 or LC8)
2. T8F Ignition Coil 6 (L20, LMF, L96 or LC8)
3. T8D Ignition Coil 4 (L20, LMF, L96 or LC8)
4. B74 Manifold Absolute Pressure Sensor
5. Q38 Throttle Body (LU3, L20, LMF, L96 or LC8)
6. T8B Ignition Coil 2 (L20, LMF, L96 or LC8)
7. B68A Knock Sensor 1
8. B26 Crankshaft Position Sensor
9. M64 Starter Motor
10. B37B Engine Oil Pressure Sensor

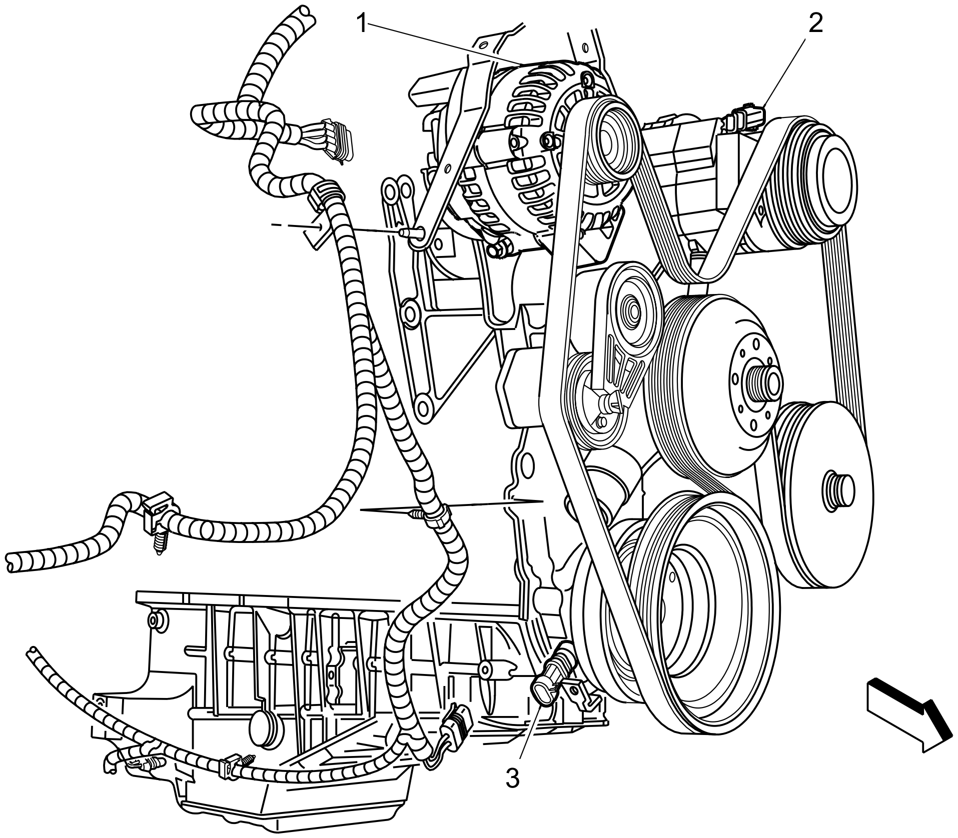
Automatic Transmission Internal Electronic Components (MYD)



Items

1. Q8 Control Solenoid Valve Assembly (MYD)
2. B14A Transmission Output Shaft Speed Sensor (M30)
3. B15 Transmission Internal Mode Switch

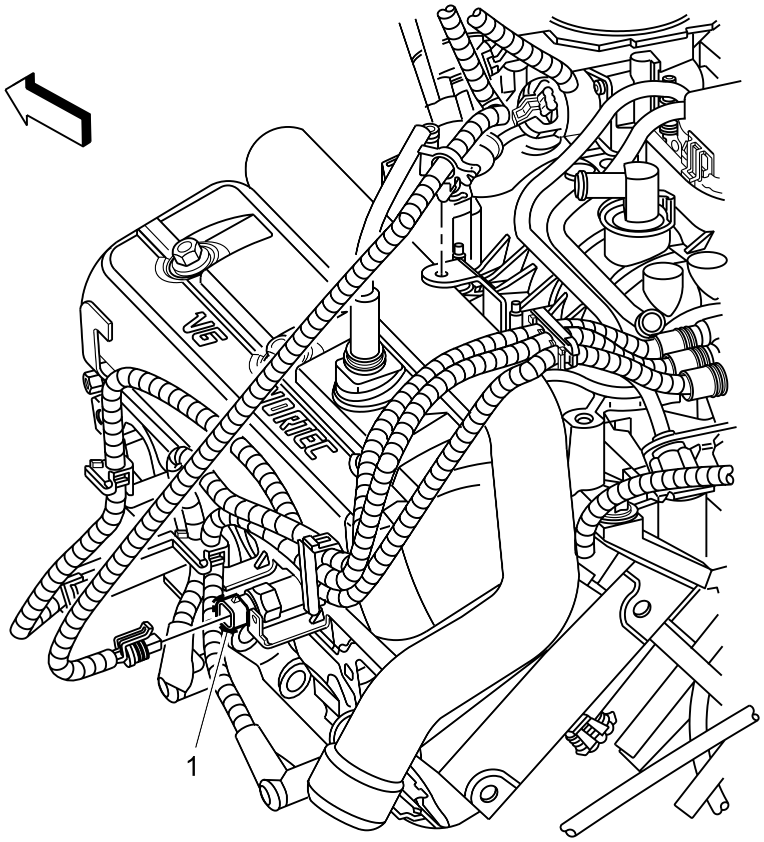
Front of the Engine (LU3)



Items

1. G13 Generator
2. Q2 A/C Compressor Clutch
3. B26 Crankshaft Position Sensor

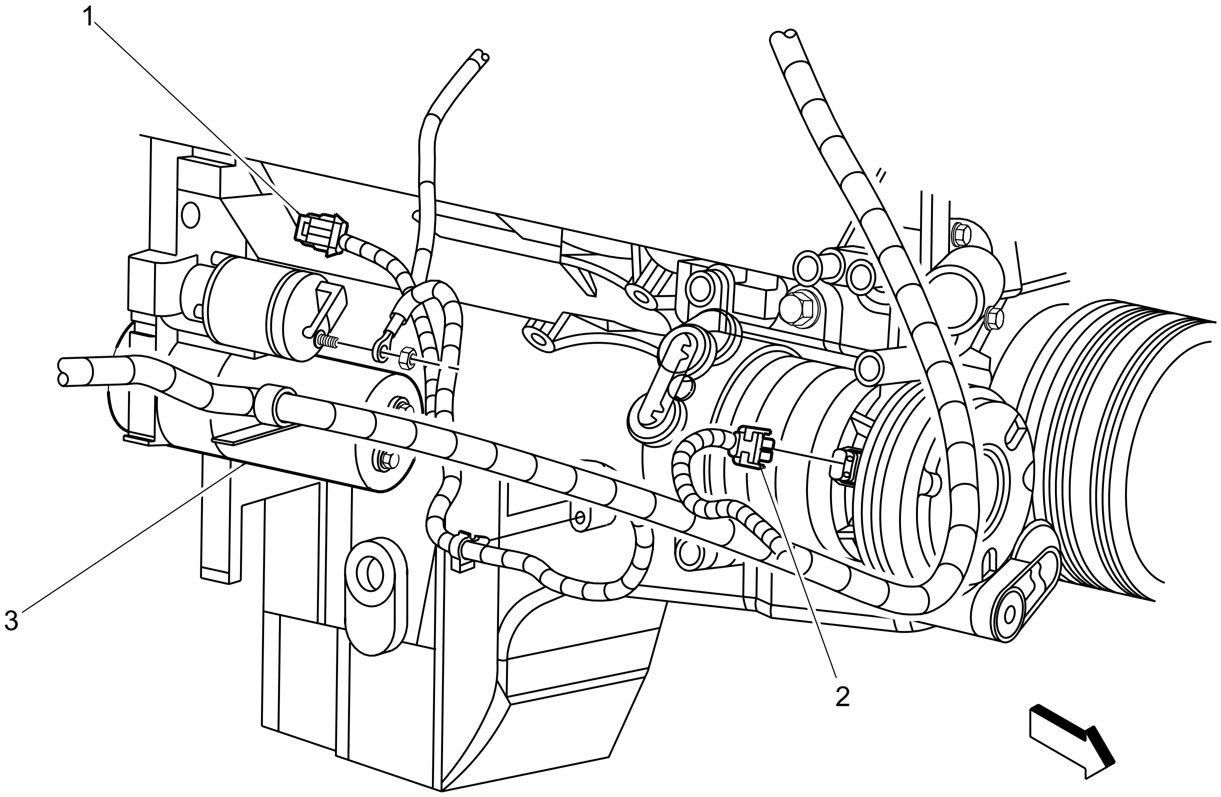
Left Rear of the Engine (LU3)



Items

1. B34 Engine Coolant Temperature Sensor

Right Side of the Engine (LC8, LMF, L20, or L96)



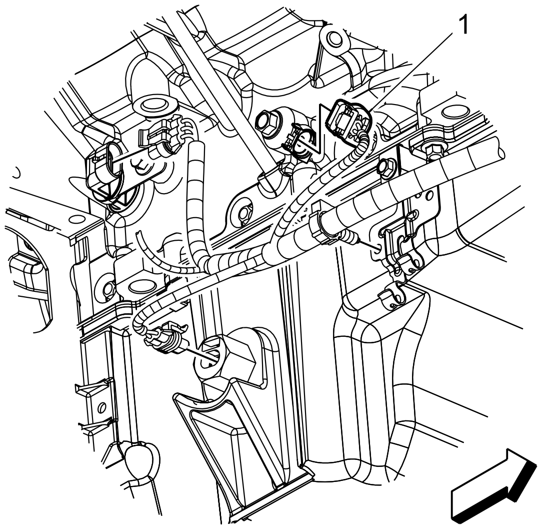
Items

1. B26 Crankshaft Position Sensor

2. Q2 A/C Compressor Clutch

3. M64 Starter Motor

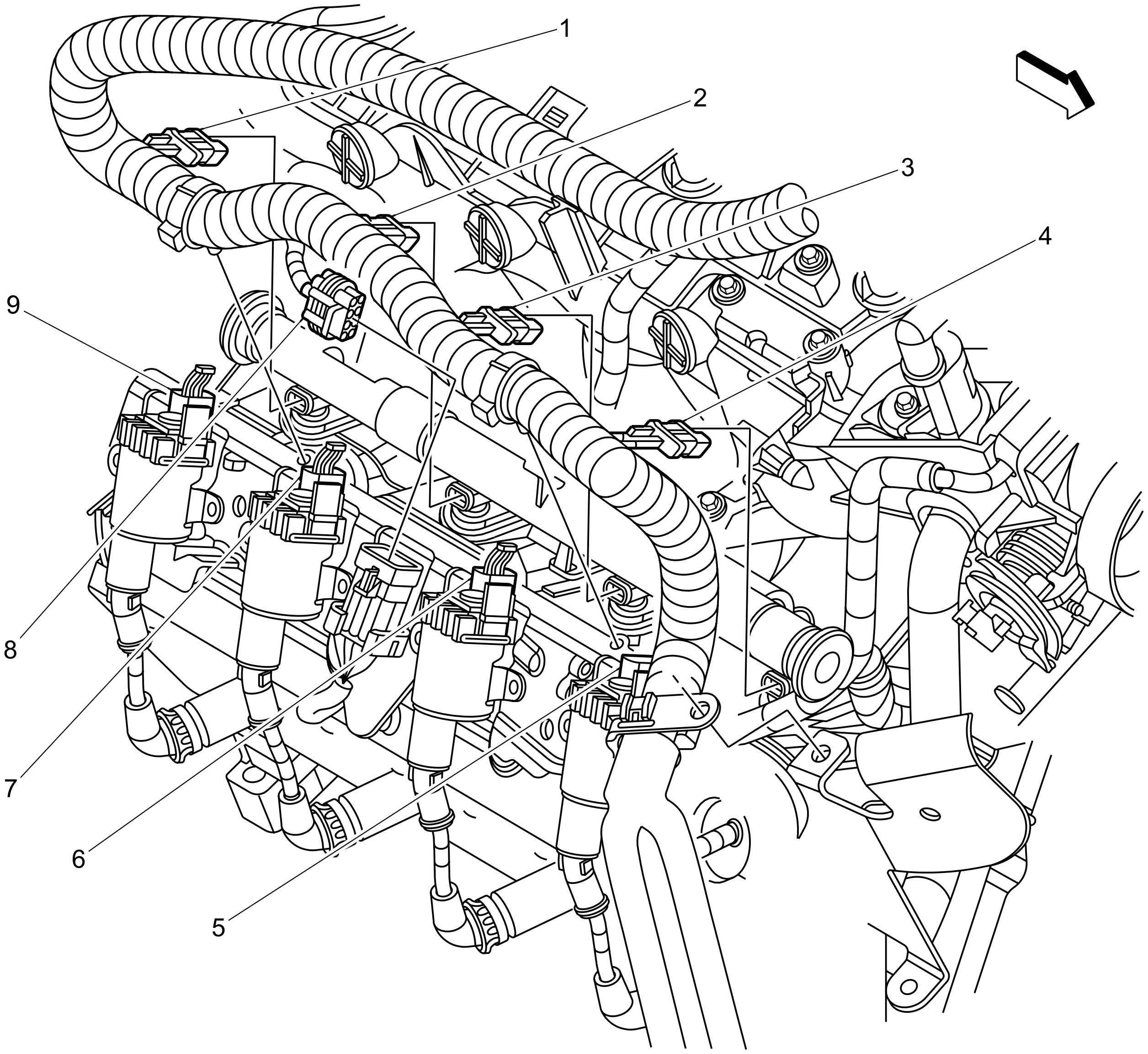
Lower Right of the Engine (LC8, LMF, L20, or L96)



Items

1. B68A Knock Sensor 1

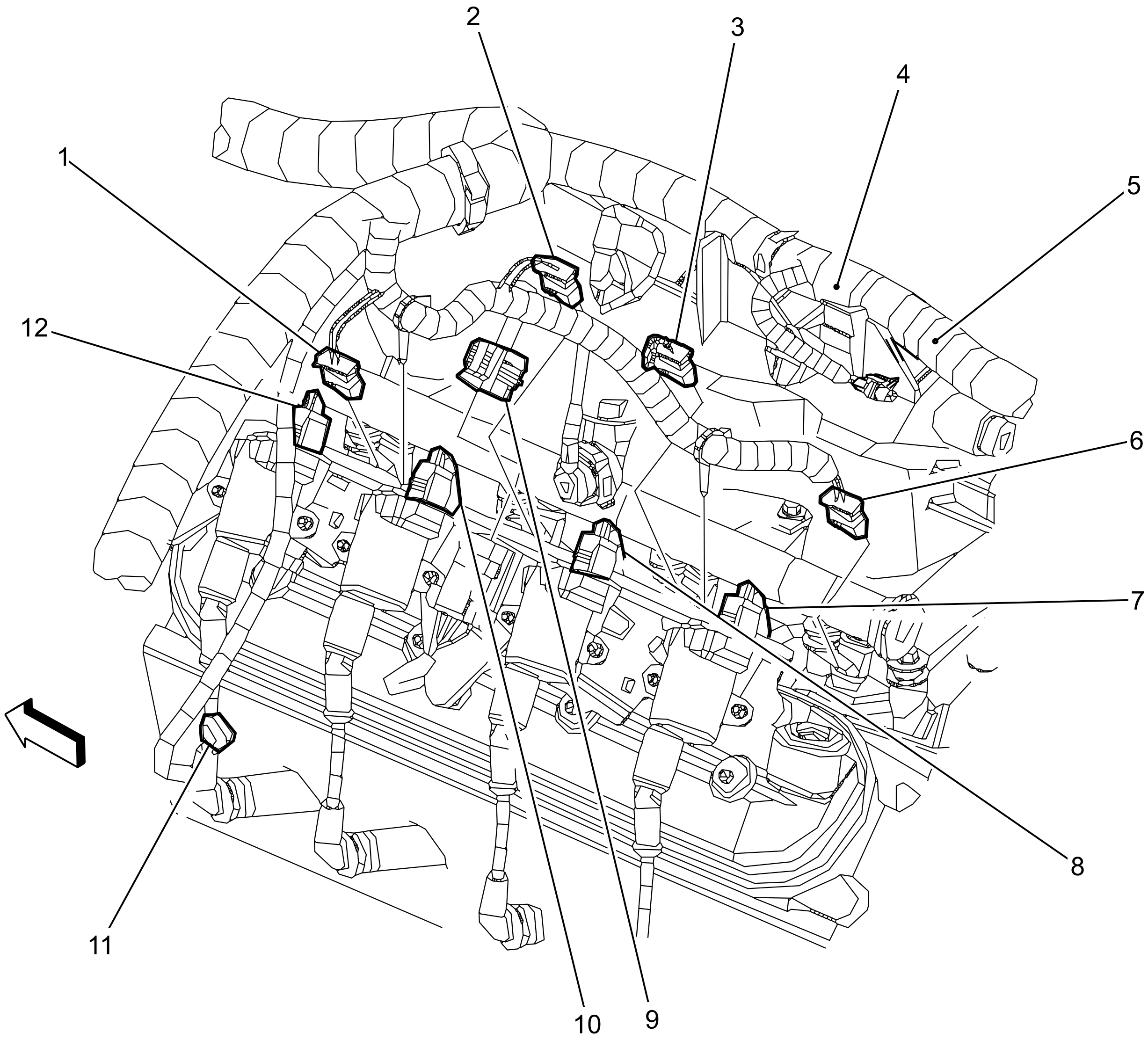
Upper Right Side of the Engine (LC8, LMF, L20, or L96)



Items

1. Q17H Fuel Injector 8
2. Q17F Fuel Injector 6
3. Q17D Fuel Injector 4
4. Q17B Fuel Injector 2
5. T8B Ignition Coil 2 (L20, LMF, L96 or LC8)
6. T8D Ignition Coil 4 (L20, LMF, L96 or LC8)
7. T8F Ignition Coil 6 (L20, LMF, L96 or LC8)
8. X127 (L20, LMF, L96 or LC8)
9. T8H Ignition Coil 8 (L20, LMF, L96 or LC8)

Upper Left Side of the Engine (LC8, LMF, L20, or L96)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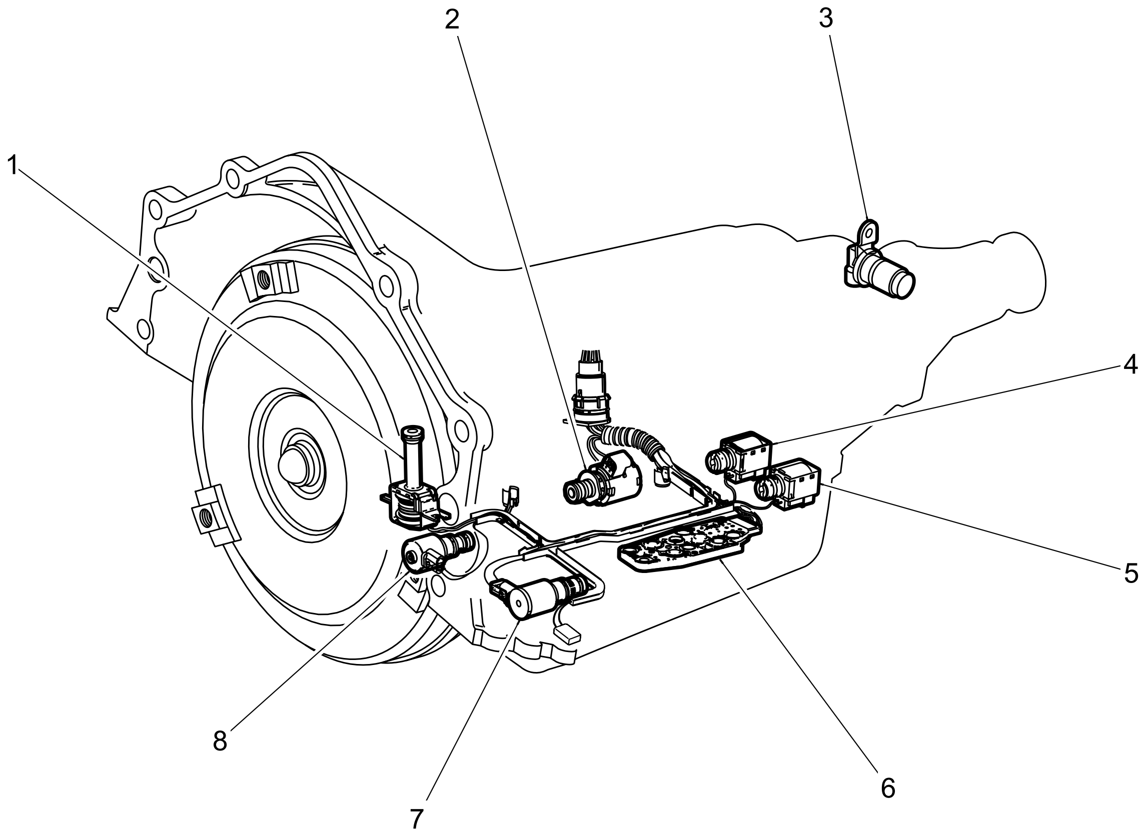
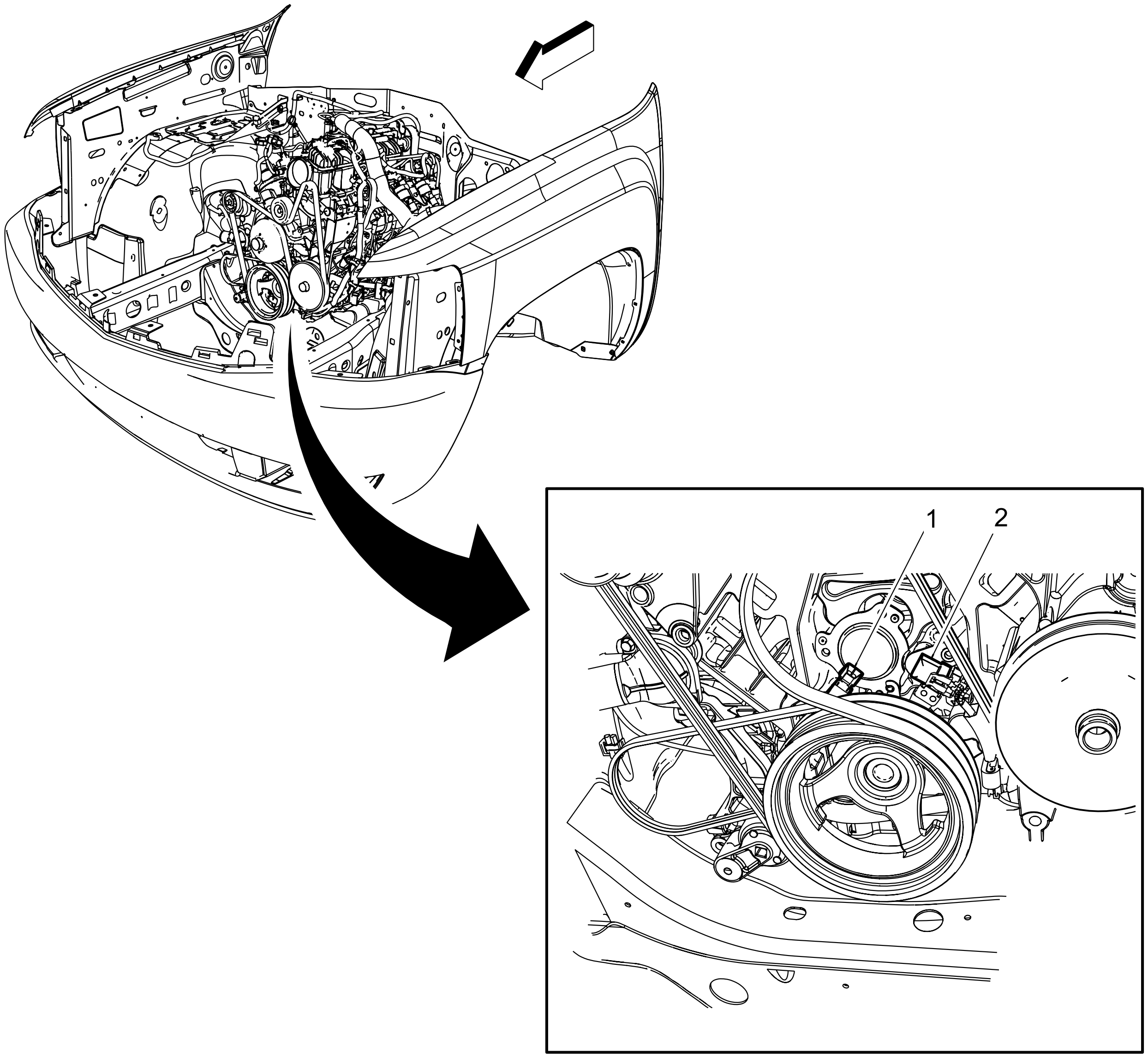
Automatic Transmission Internal Electronic Components (M30)



Items

1. Q39A Torque Converter Clutch Pressure Control Solenoid Valve (M30)
2. B14C Transmission Input Shaft Speed Sensor (M30)
3. B14A Transmission Output Shaft Speed Sensor (M30)
4. Q1B 2-3 Shift Solenoid Valve (M30)
5. Q1A 1-2 Shift Solenoid Valve (M30)
6. B13 Transmission Fluid Temperature Sensor (M30)
7. Q27 Pressure Control Solenoid Valve
8. Q39A Torque Converter Clutch Pressure Control Solenoid Valve (M30)

Left Front Side of the Engine Components (LC8, LMF, L20, or L96)

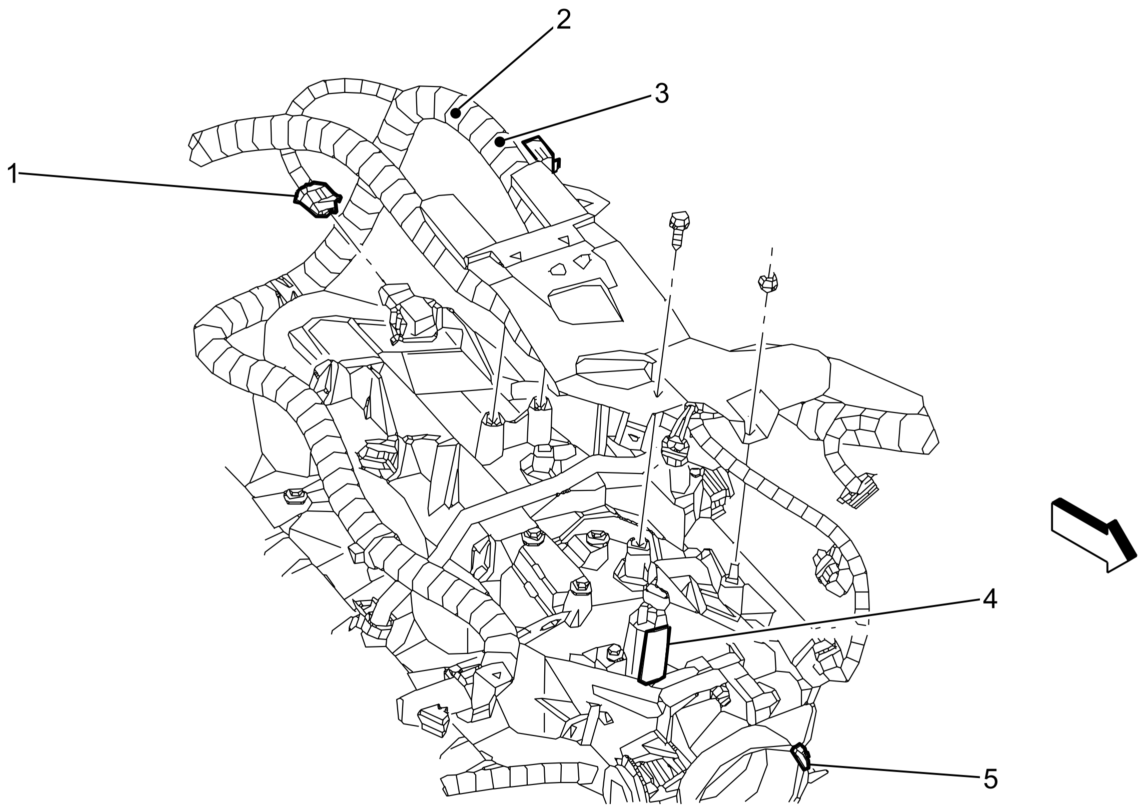


Items

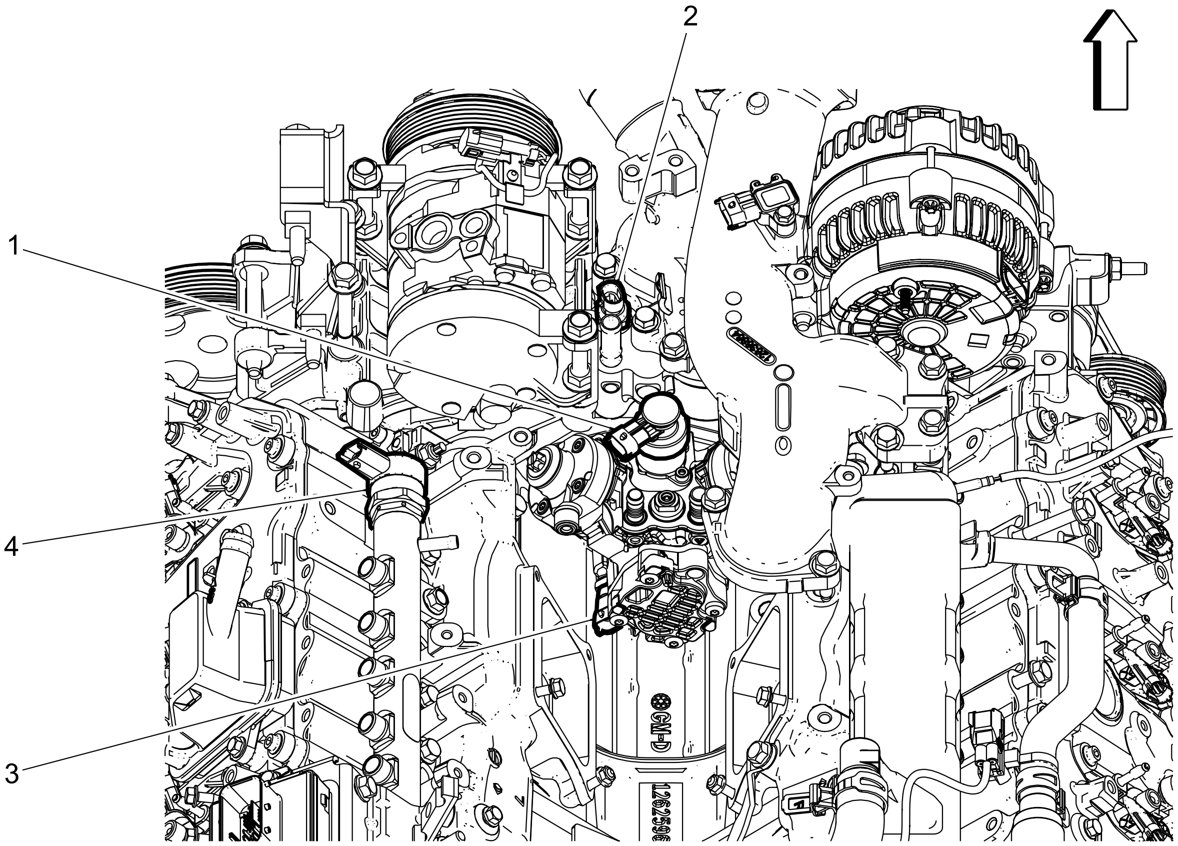
1. Q6 Camshaft Position Actuator Solenoid Valve (L96 or LC8)

2. B23 Camshaft Position Sensor

Top of the Engine (LC8, LMF, L20, or L96)



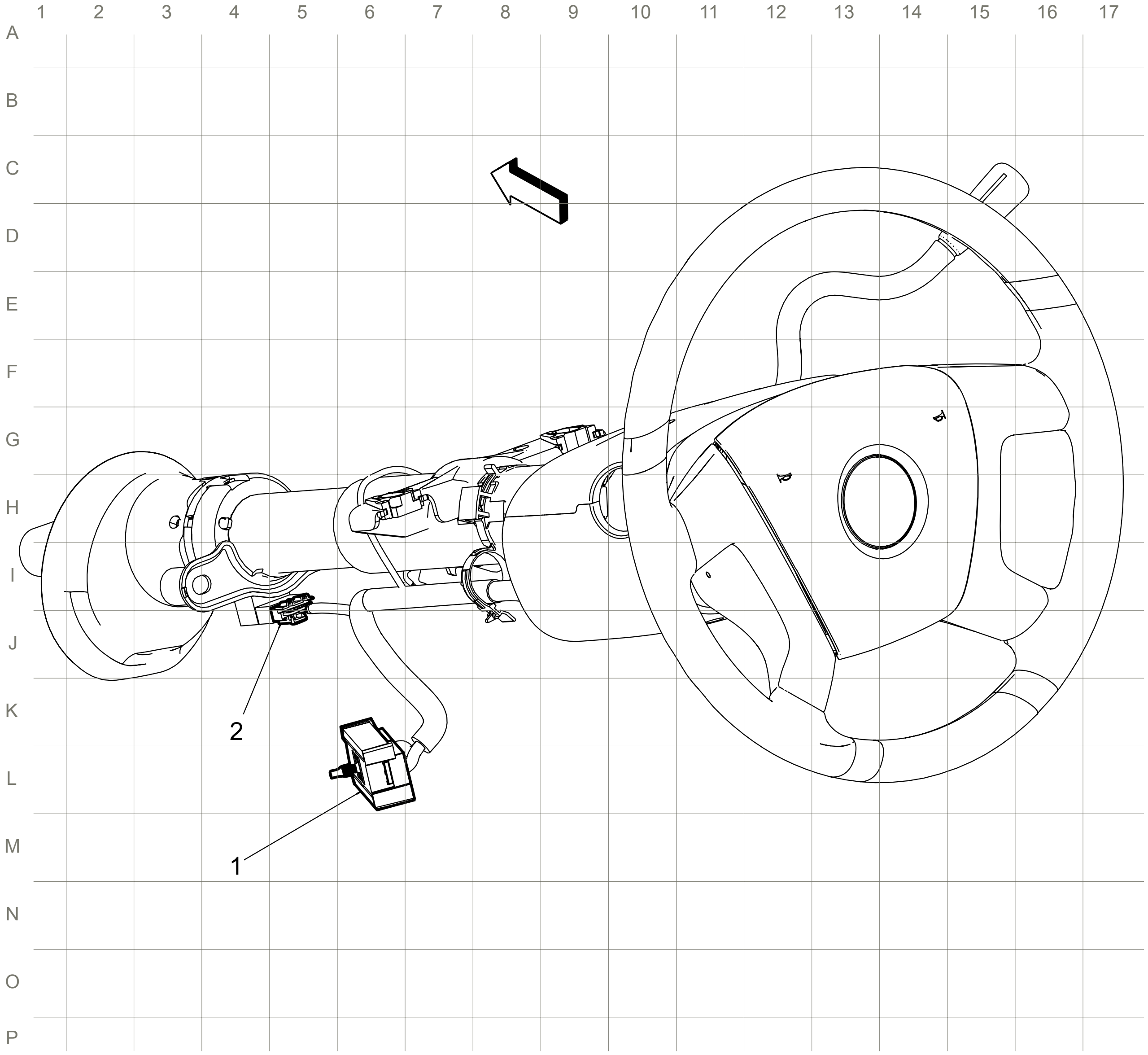
Top of the Engine Components (LGH)



Items

1. Q18A Fuel Pressure Regulator 1 (LGH)
2. B34 Engine Coolant Temperature Sensor
3. B48A Fuel Temperature Sensor 1 (LGH)
4. Q18B Fuel Pressure Regulator 2 (LGH)

Steering Column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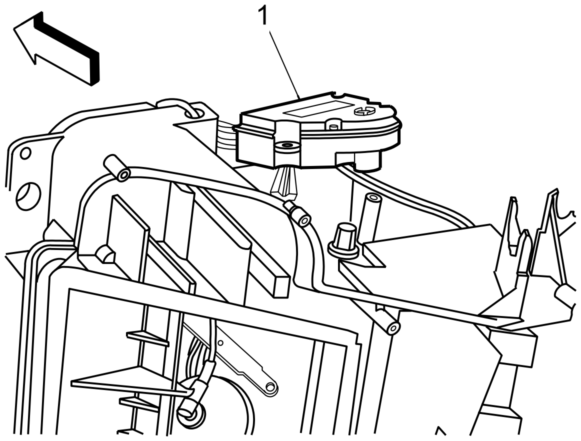
Items

1. X200
2. B99 Steering Wheel Angle Sensor (JL4)

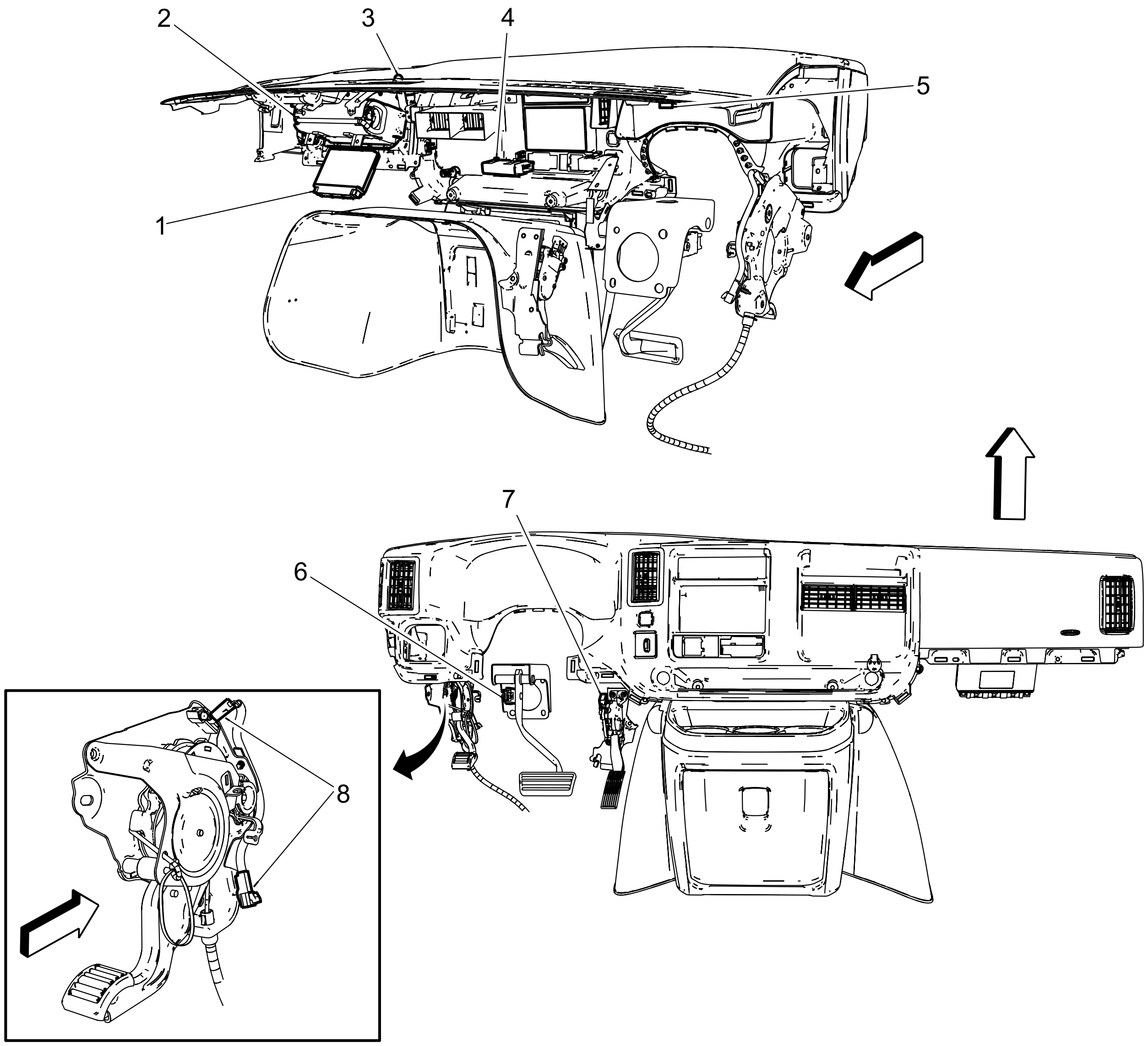
Air Temperature Actuator



Items

1. M6 Air Temperature Door Actuator

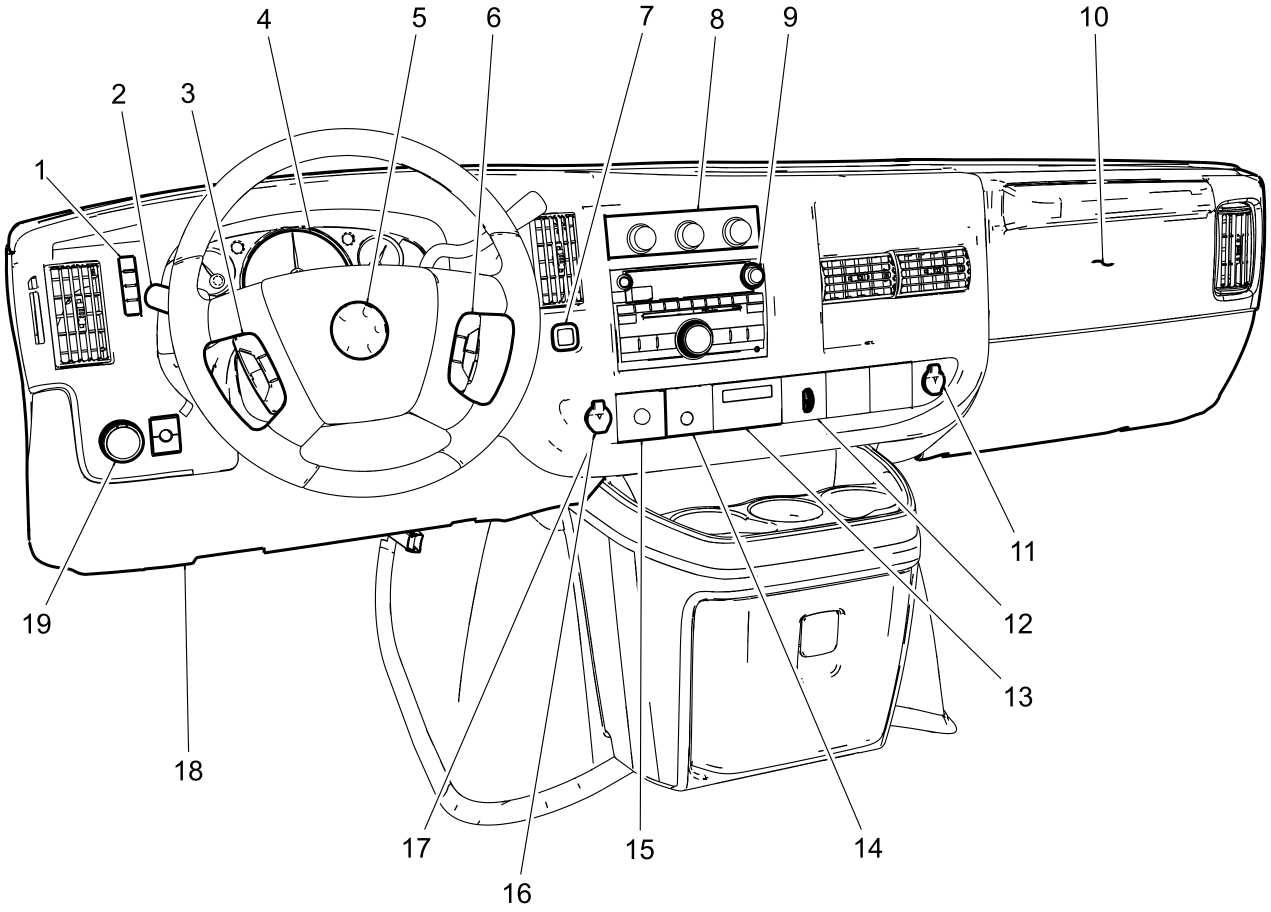
Instrument Panel Harness Components



Items

1. K9 Body Control Module
2. F101 Passenger Instrument Panel Air Bag
3. B10 Ambient Light Sensor
4. P5 Chime Alarm Control Module (UL5)
5. K77 Remote Control Door Lock Receiver (AU0)
6. B103 Stop Lamp Switch
7. B107 Accelerator Pedal Position Sensor
8. B80 Park Brake Switch

Instrument Panel Components



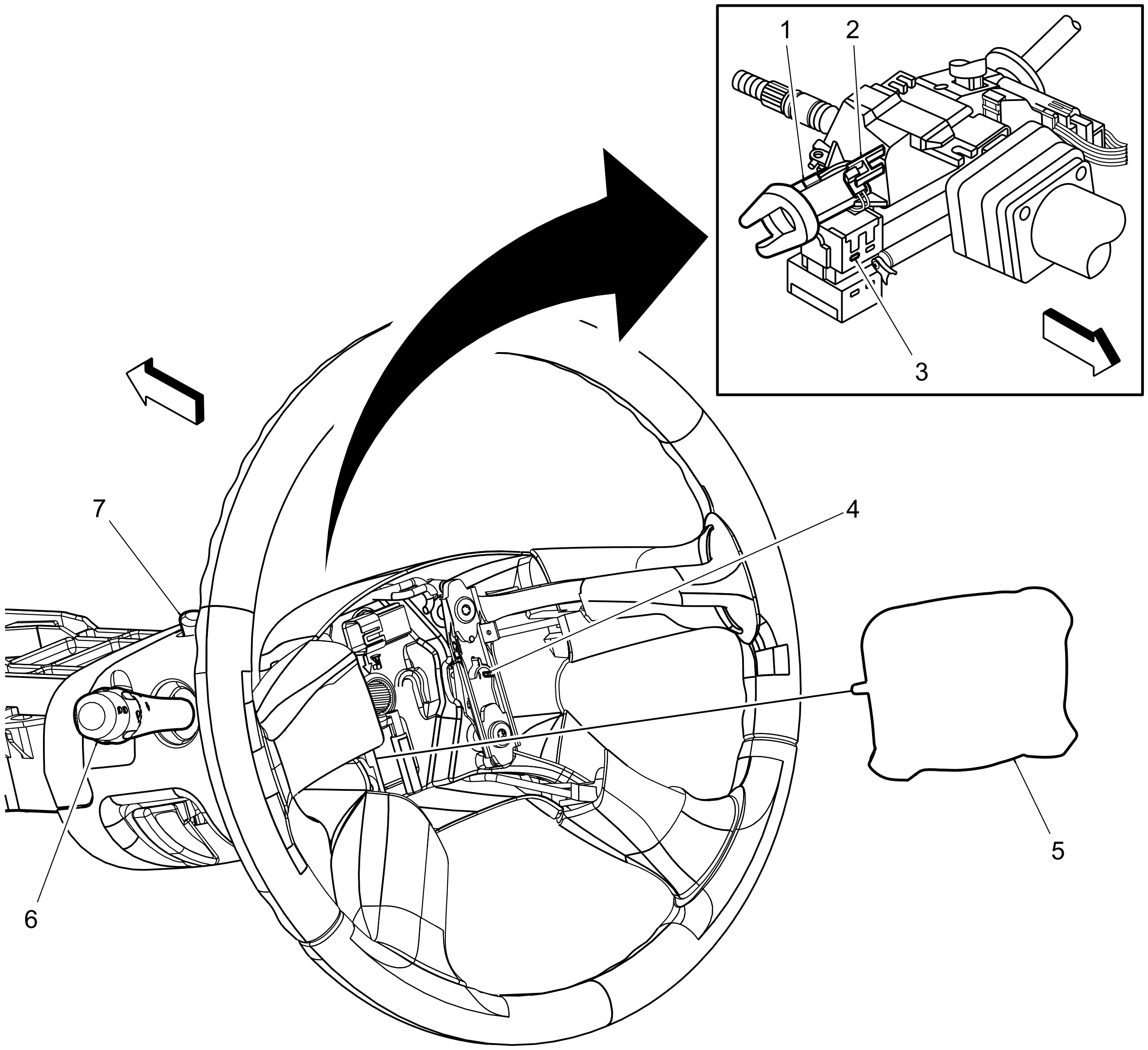
Items

1. S16 Driver Information Center Switch
2. S78 Turn Signal/Multifunction Switch
3. S70L Steering Wheel Controls Switch - Left (K34)
4. P16 Instrument Cluster
5. F107 Steering Wheel Air Bag
6. S70R Steering Wheel Controls Switch - Right (W1Y)
7. S74 Tow/Haul Mode Switch
8. S34 HVAC Controls Switch Assembly
9. A11 Radio
10. F101 Passenger Instrument Panel Air Bag

11. X80B Accessory Power Receptacle - Center Console 2

11. X80B Accessory Power Receptacle - Center Console 2
12. S85 Auxiliary Blower Motor Switch (C36 without C69)
13. P14 Passenger Air Bag Disabled Indicator (Light Duty without YF7)
14. S40 Passenger Air Bag Disable Switch (C99)
15. S75 Traction Control Switch (JL4)
16. X80A Accessory Power Receptacle - Center Console 1 (without DT4)
17. E32 Cigarette Lighter Receptacle
18. X84 Data Link Connector (DLC)
19. S30 Headlamp Switch

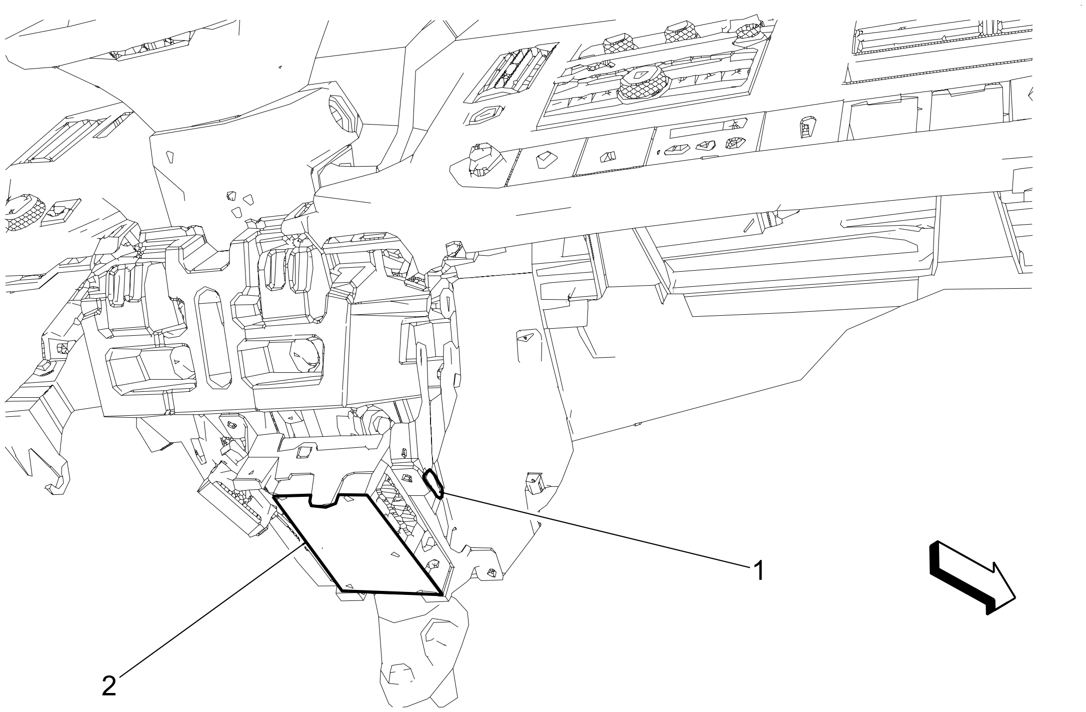
Upper Steering Column



Items

1. K64 Content Theft Deterrent Control Module
2. M7 Transmission Shift Lock Control Solenoid Actuator
3. S39 Ignition Switch
4. S33 Horn Switch
5. F107 Steering Wheel Air Bag
6. S78 Turn Signal/Multifunction Switch
7. S26 Hazard Warning Switch

Under Steering Column Components



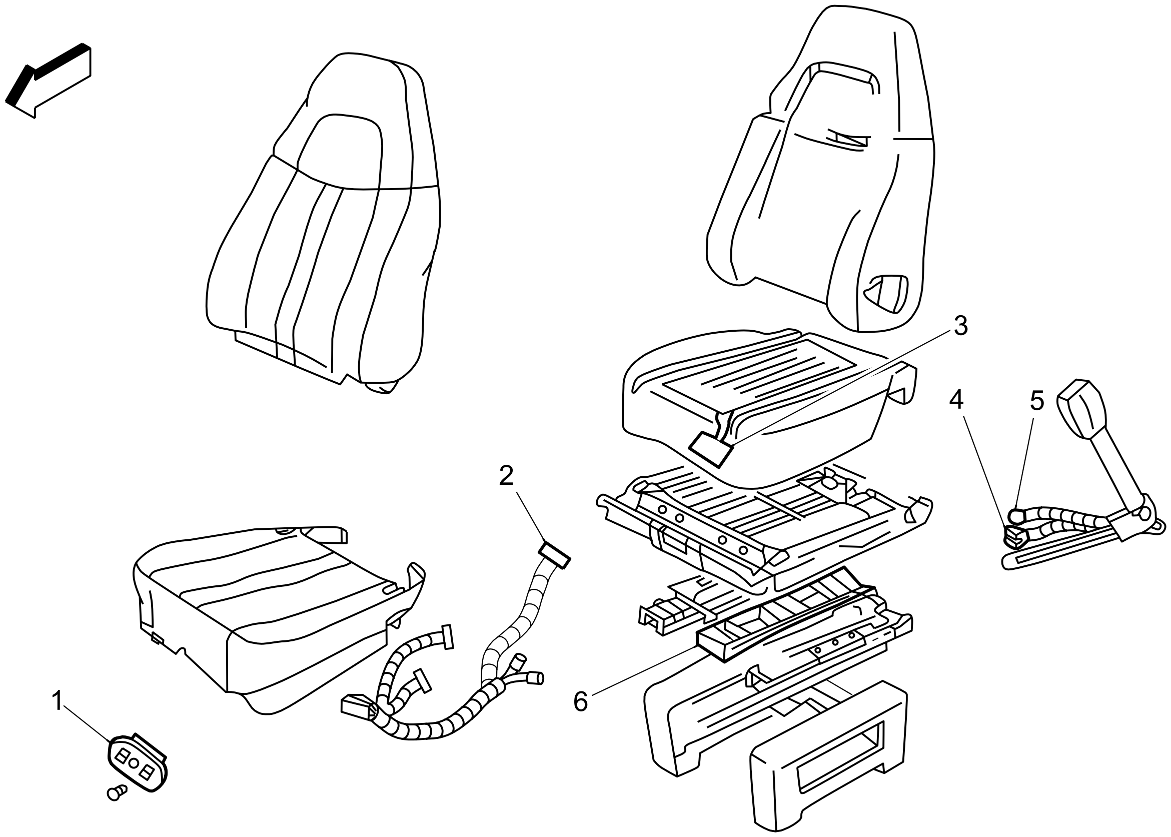
Items

1. A12 Digital Radio Receiver Control Module (U2K)

2. K73 Telematics Communication Interface Control Module (UE1)

Passenger Compartment/Roof Component Views

Passenger Seat



Items

1. S64P Seat Adjuster Switch - Passenger (AG2)

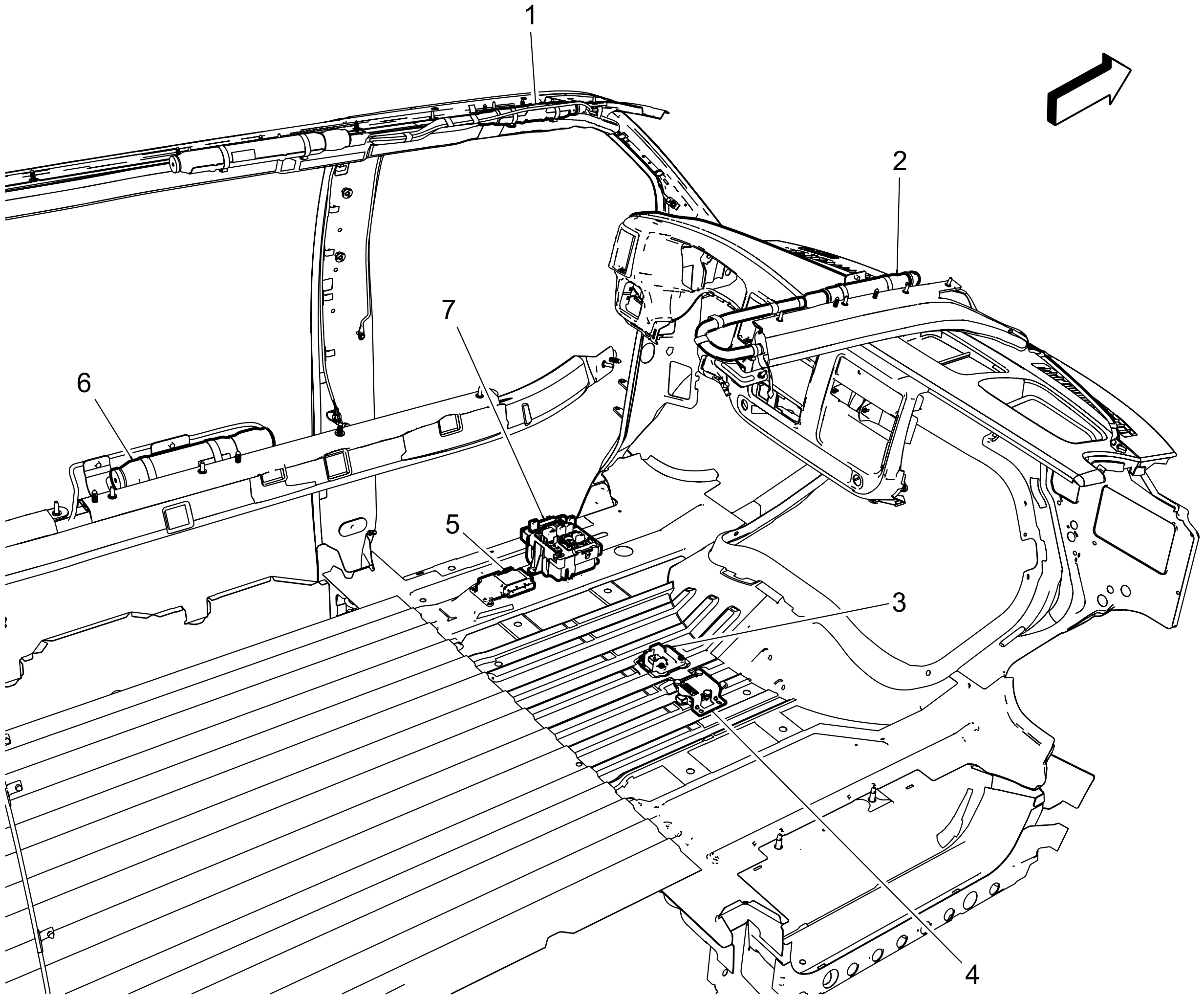
2. X306

3. B60 Passenger Presence Sensor (Light Duty without YF7)

4. F109P Seat Belt Buckle Pretensioner - Passenger

5. B153P Seat Belt Buckle - Passenger

Front Left Side of Passenger Compartment



Items

1. F105LF Roof Rail Air Bag - Left Front (ASF)

2. F105RF Roof Rail Air Bag - Right Front (ASF)

3. B64 Rollover Sensor

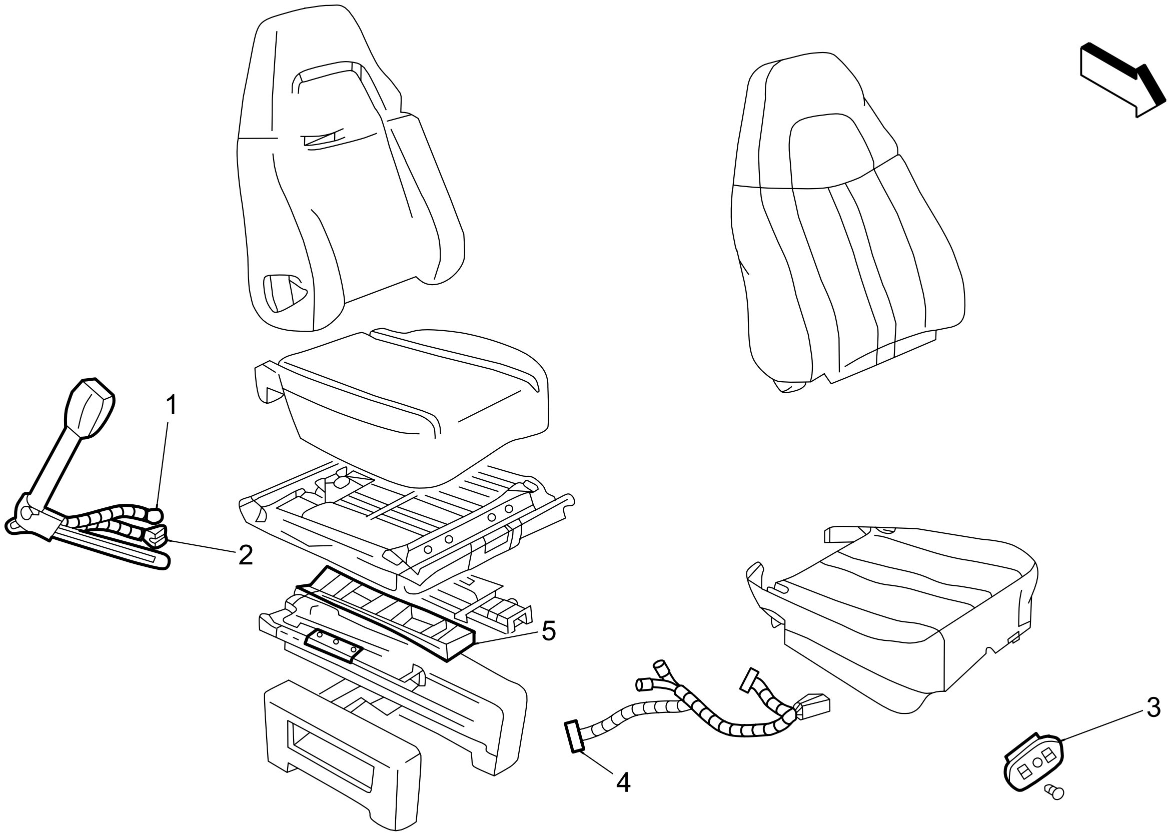
4. B119 Multi-axis Acceleration Sensor (JL4)

5. K36 Inflatable Restraint Sensing and Diagnostic Module (SDM)

6. F105RR Roof Rail Air Bag - Right Rear (ASF with YA2)

7. X53A Fuse Block - Rear Body

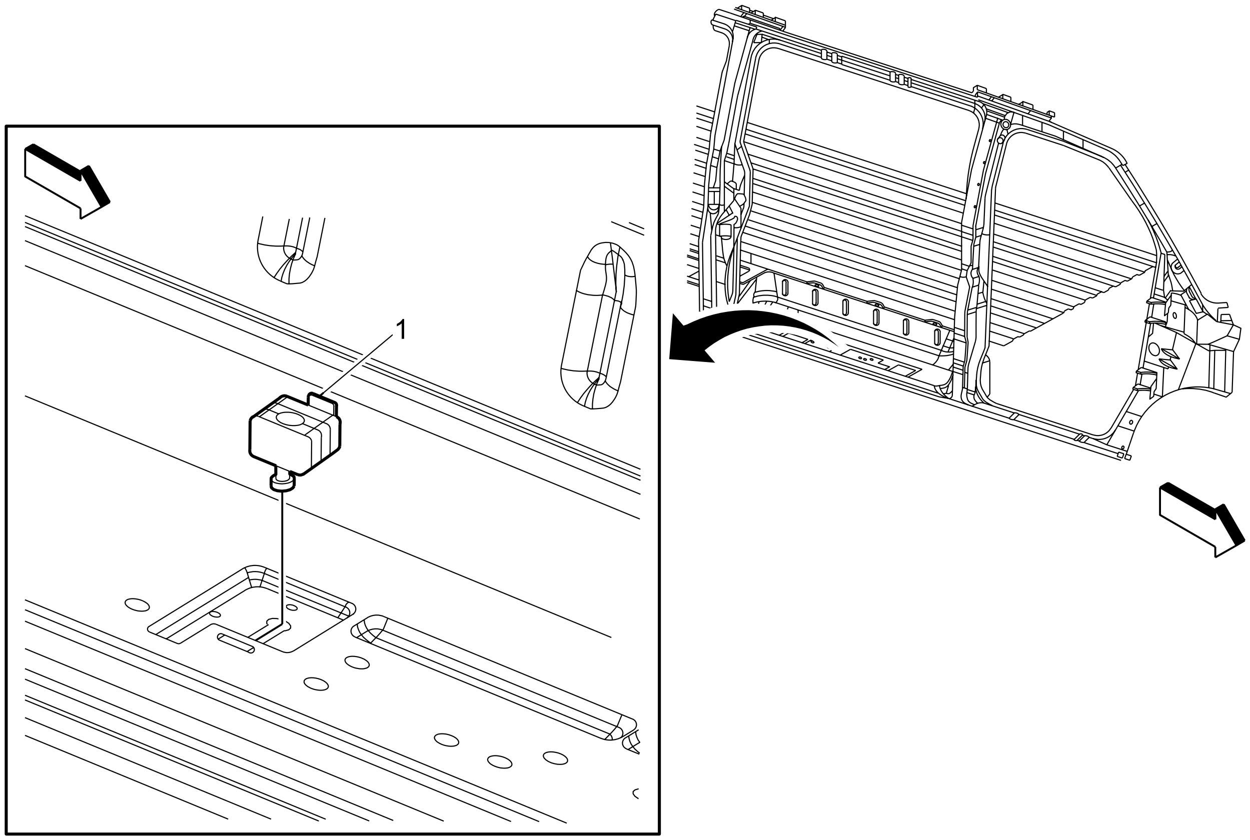
Driver Seat



Items

1. B153D Seat Belt Buckle - Driver
2. F109D Seat Belt Buckle Pretensioner - Driver
3. S64D Seat Adjuster Switch - Driver (AG1)
4. X307

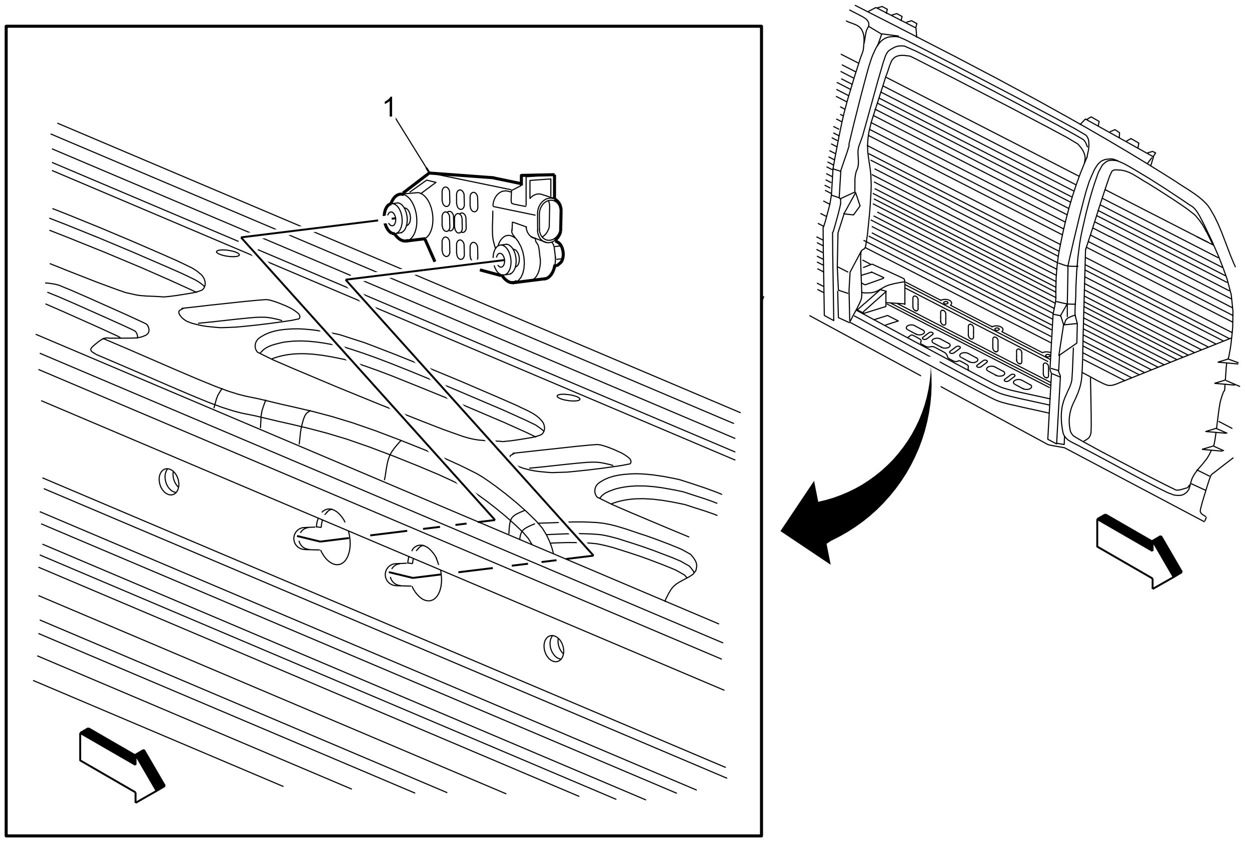
Right Rear Frame Rail (Passenger with E24)



Items

1. B63RR Side Impact Sensor - Right Rear

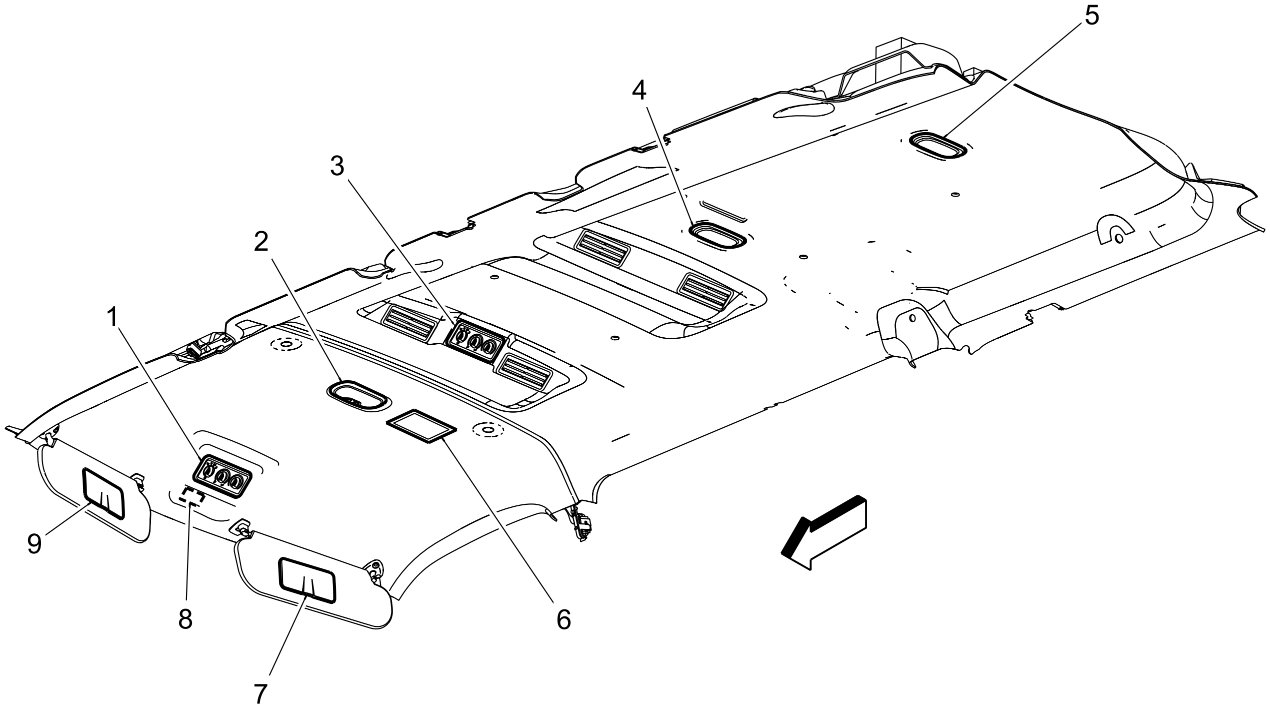
Right Rear Frame Rail (Passenger with YA2)



Items

1. B63RR Side Impact Sensor - Right Rear

Headliner



Items

1. S34F HVAC Controls Switch Assembly - Auxiliary Front (C69)

2. E37F Dome/Reading Lamps - Front

3. S34R HVAC Controls Switch Assembly - Auxiliary Rear (C69 with Rear Auxiliary Controls)

4. E37M Dome/Reading Lamps - Middle

5. E37R Dome/Reading Lamps - Rear

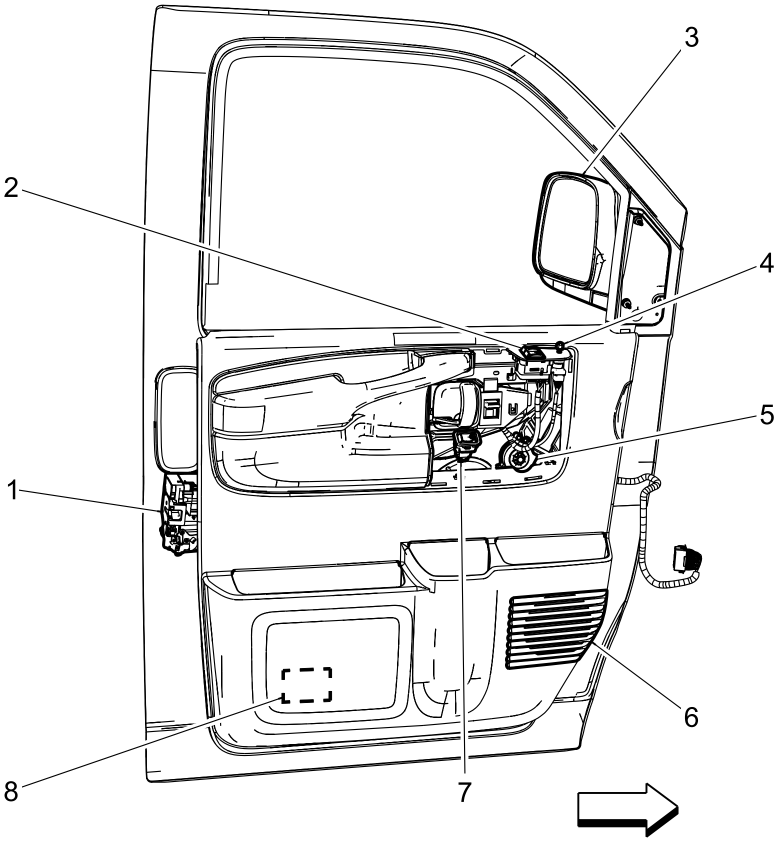
6. K18 Compass Module (U80)

7. E31R Sunshade Mirror Lamp - Right (DH6)

9. E31L Sunshade Mirror Lamp - Left (DH6 with YF7)

Door Component Views

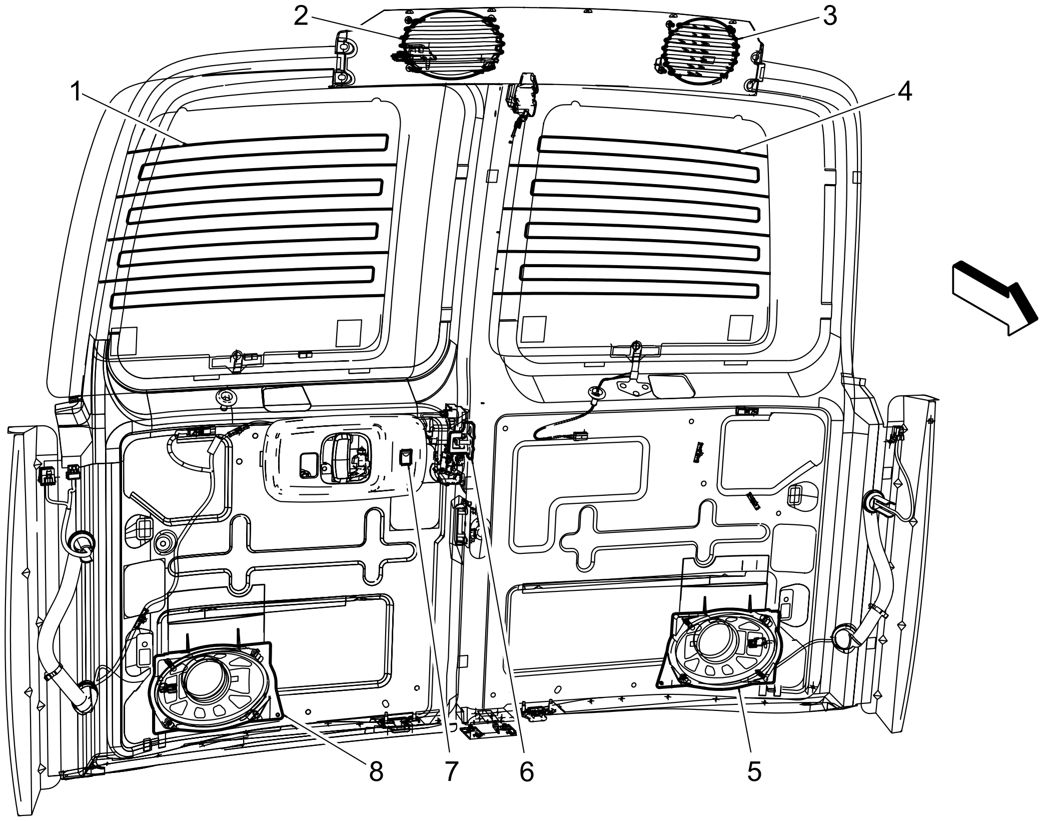
Driver Door



Items

1. A23D Door Latch Assembly - Driver
2. S79D Window Switch - Driver (A31)
3. A9A Outside Rearview Mirror - Driver (DE5 or DE7)
4. S52 Outside Rearview Mirror Switch (DE5 or DE7)
5. M74D Window Motor - Driver (A31)
6. P19AG Speaker - Left Front Door
7. S13D Door Lock Switch - Driver (AU3)
8. B63LF Side Impact Sensor - Left Front (ASF)

Rear Doors (Passenger or Cargo)



Items

1. E18R Rear Defogger Grid - Right (C49)

2. P19AP Speaker - Right Rear Trim Panel

3. P19AN Speaker - Left Rear Trim Panel

4. E18L Rear Defogger Grid - Left (C49)

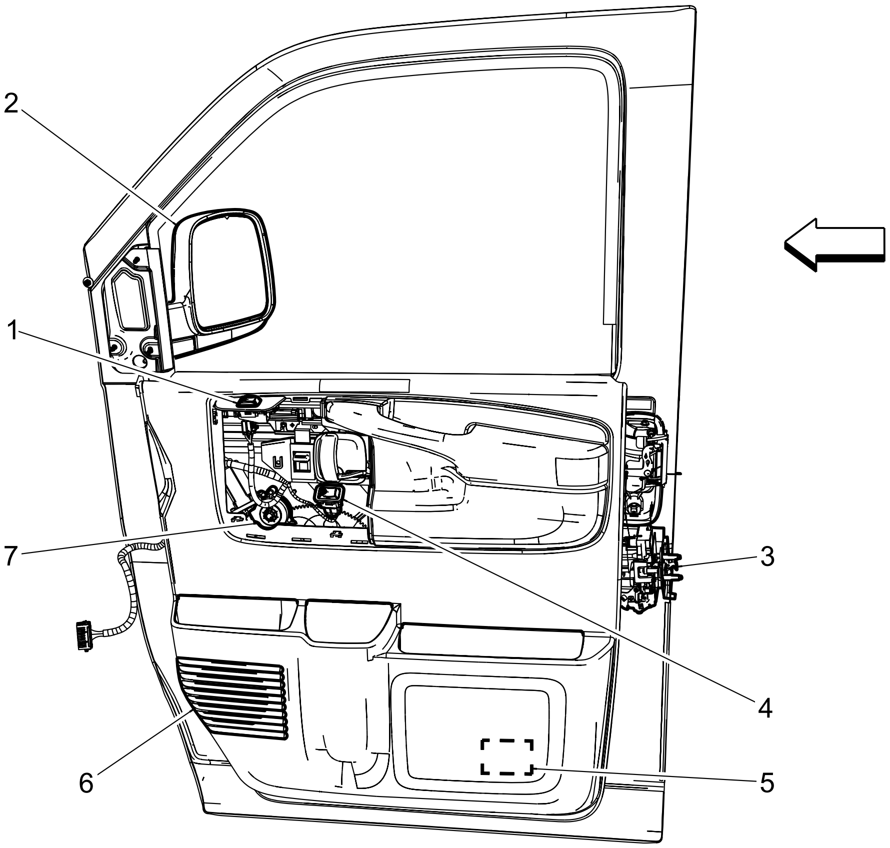
5. P19F Speaker - Left Rear Cargo Door (US8)

6. M13 Door Latch Assembly - Rear Cargo

7. S13A Door Lock Switch - Rear Cargo (Passenger or Cargo with AU3)

8. P19T Speaker - Right Rear Cargo Door (US8)

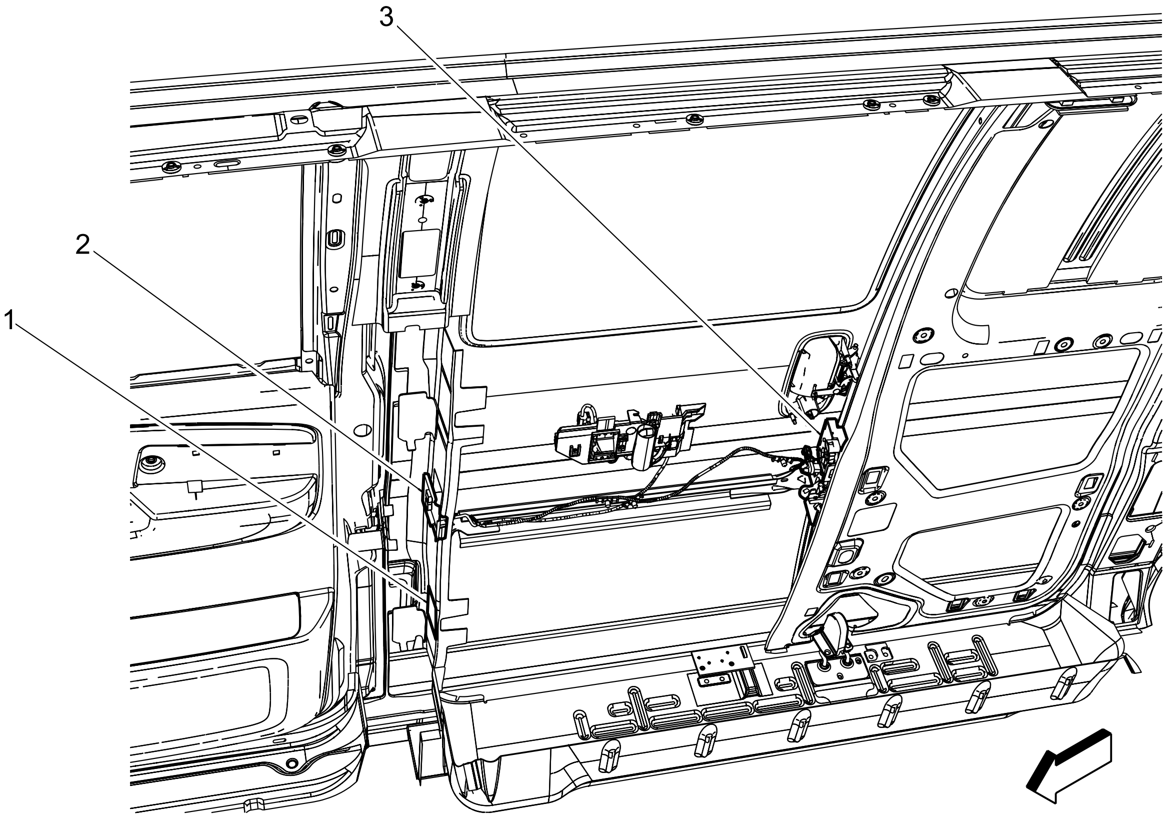
Front Passenger Door



Items

1. S79P Window Switch - Passenger (A31)
2. A9B Outside Rearview Mirror - Passenger (DE5 or DE7)
3. A23P Door Latch Assembly - Passenger
4. S13P Door Lock Switch - Passenger (AU3)
5. B63RF Side Impact Sensor - Right Front (ASF)
6. P19AH Speaker - Right Front Door
7. M74P Window Motor - Passenger (A31)

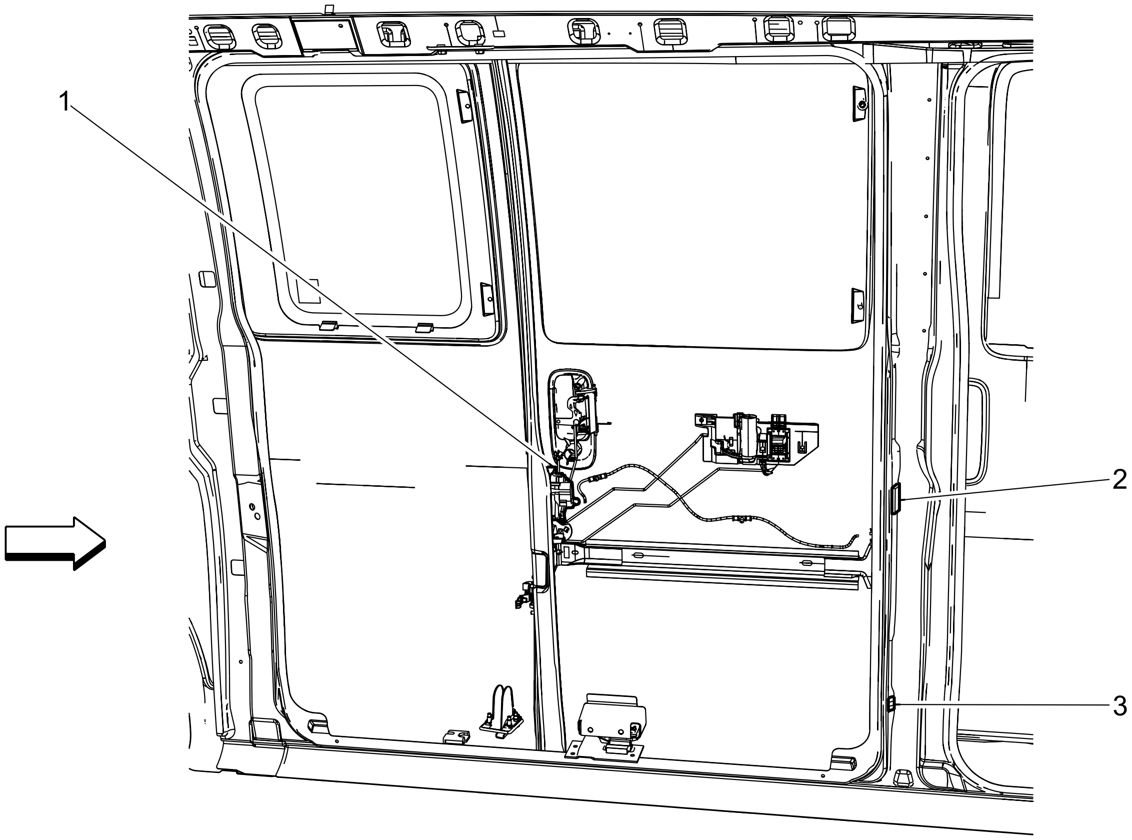
Right Side Door (E24)



Items

1. B28F Door Ajar Switch - Right Sliding
2. X87RB Sliding Door Jamb Contact Plate - Right Body
(Passenger or Cargo with AU3)

Left Side Door (E26)

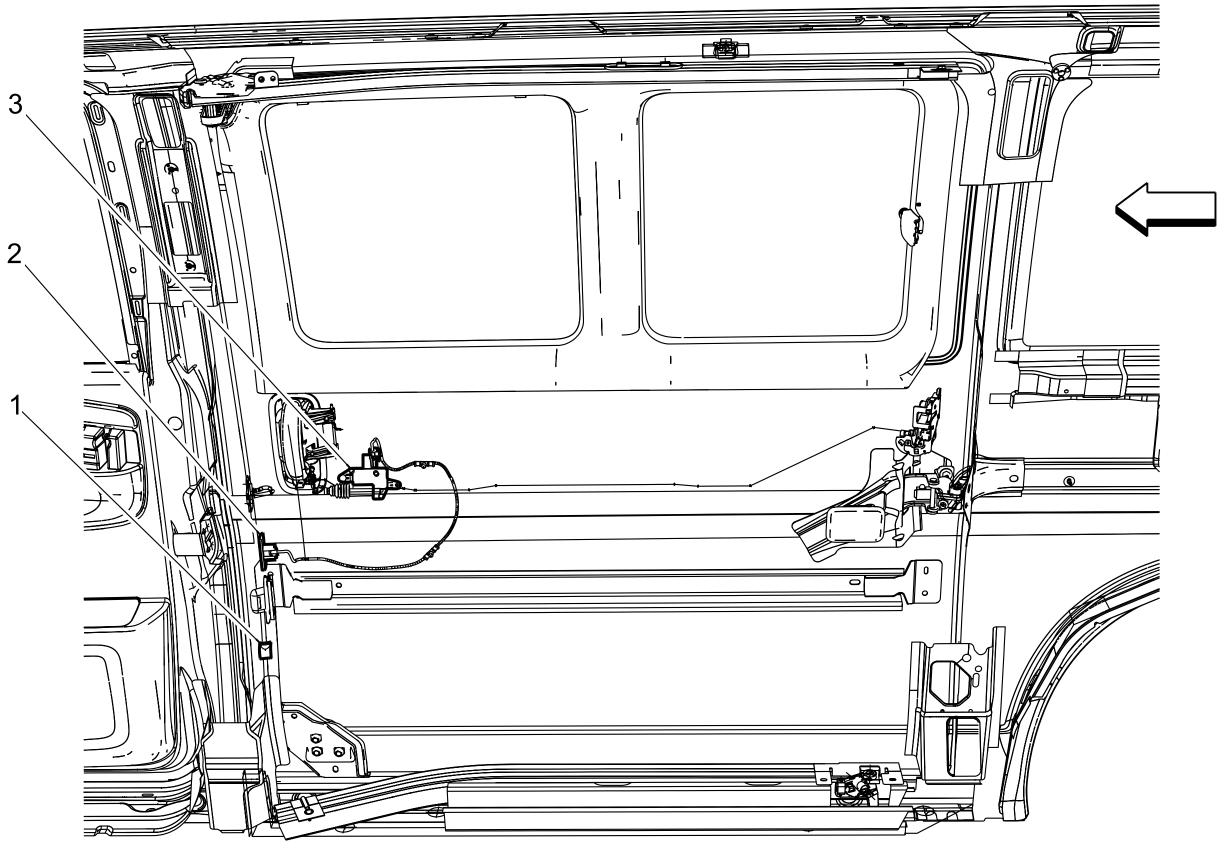


Items

2. X87LB Sliding Door Jamb Contact Plate - Left Body (E26 with AU3)

3. B28E Door Ajar Switch - Left Sliding (E26)

Right Sliding Door (YA2)



Items

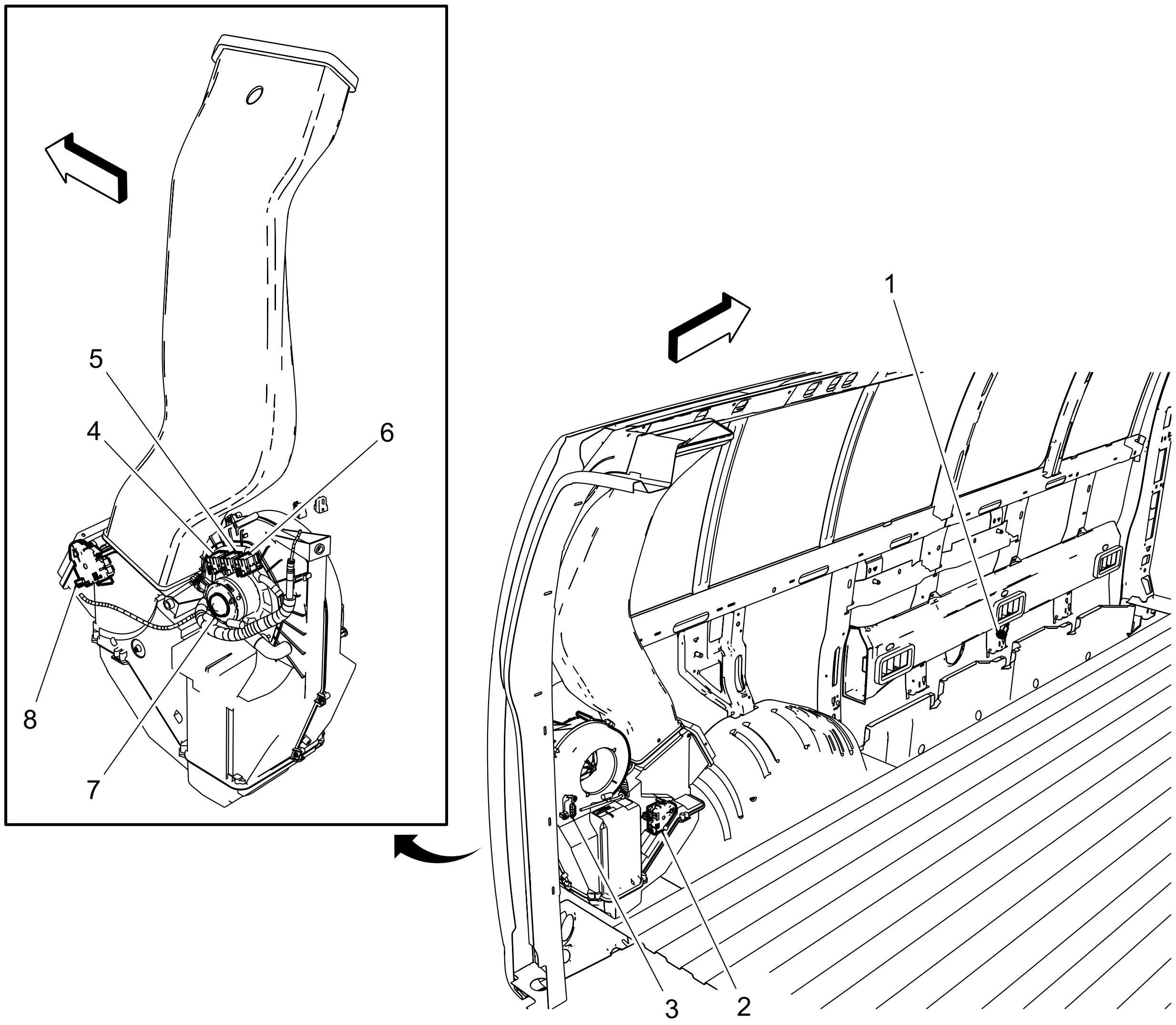
1. B28F Door Ajar Switch - Right Sliding

2. X87RB Sliding Door Jamb Contact Plate - Right Body (Passenger or Cargo with AU3)

3. M14RR Door Lock Actuator - Right Rear (Passenger or Cargo with AU3)

Luggage Compartment/Rear of Vehicle Component Views

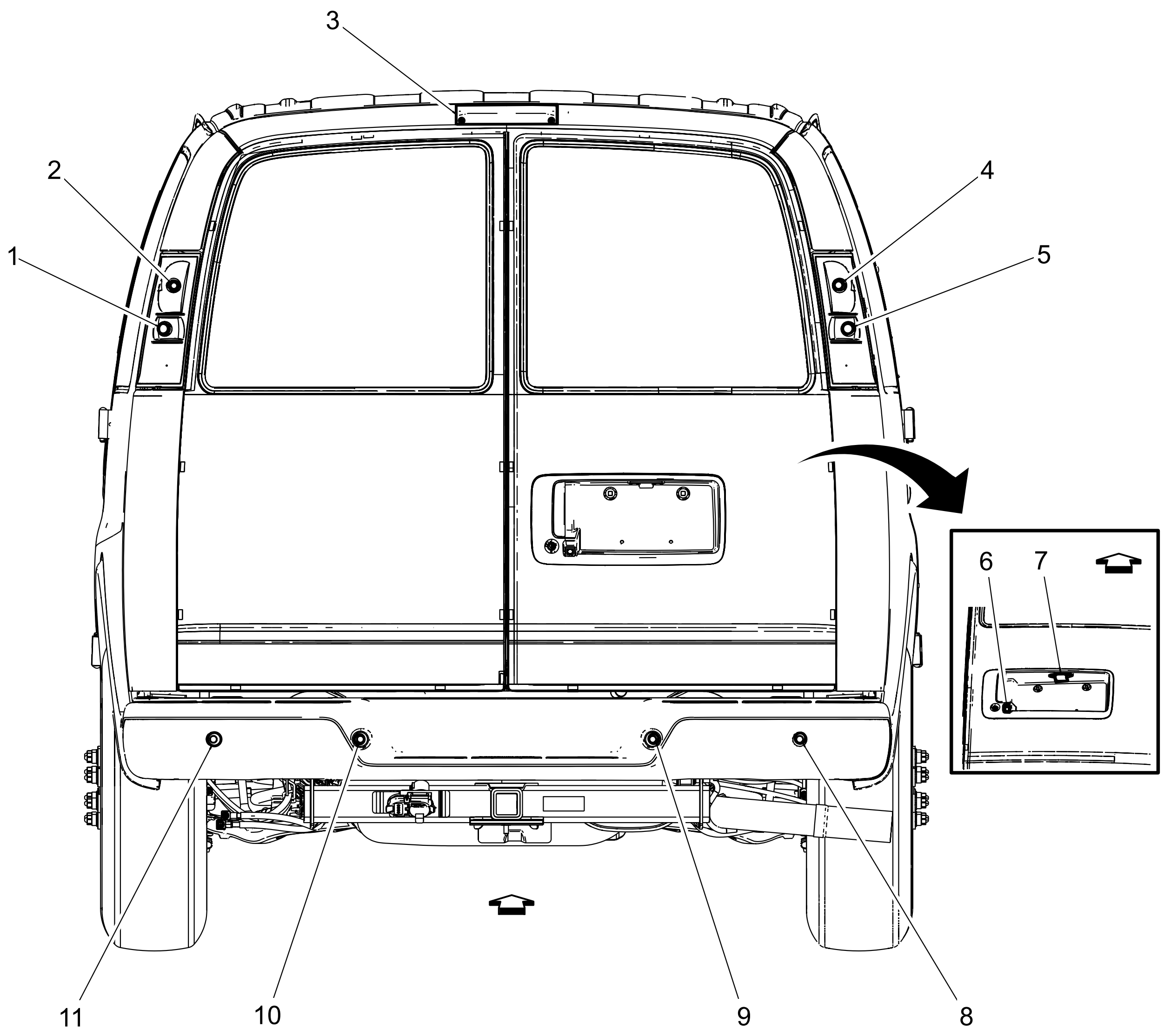
Left Rear Cargo Area (Passenger or Cargo)



Items

1. B63LR Side Impact Sensor - Left Rear (Passenger with ASF without E26)
2. M6B Air Temperature Door Actuator - Auxiliary (C69)
3. R3B Blower Motor Resistor - Auxiliary (C36 with C69)
4. KR32B Blower Motor High Speed Relay - Auxiliary
5. KR32D Blower Motor Medium Speed Relay - Auxiliary
6. KR32C Blower Motor Low Speed Relay - Auxiliary
7. M8B Blower Motor - Auxiliary (C36 with C69)
8. M37B Mode Door Actuator - Auxiliary (C69)

Rear Exterior Lights (Passenger or Cargo)

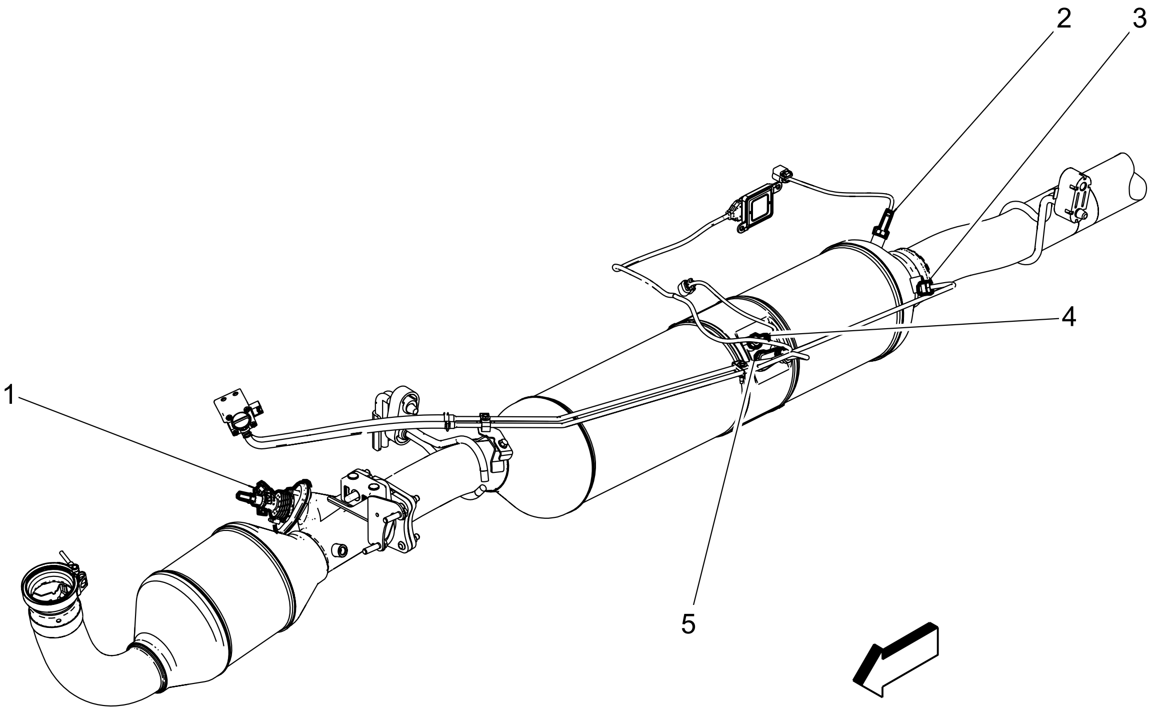


Items

1. E5A Backup Lamp - Left
2. E5S Tail/Stop and Turn Signal Lamp - Left
3. E6 Center High Mounted Stop Lamp
4. E5T Tail/Stop and Turn Signal Lamp - Right
5. E5B Backup Lamp - Right
6. B87 Rearview Camera (UVC)
7. E7 License Plate Lamp
8. B78H Rear Object Sensor - Right Outer (UD7)
9. B78F Rear Object Sensor - Right Middle (UD7)
10. B78E Rear Object Sensor - Left Middle (UD7)
11. B78G Rear Object Sensor - Left Outer (UD7)

11. B78G Rear Object Sensor - Left Outer (UD7)

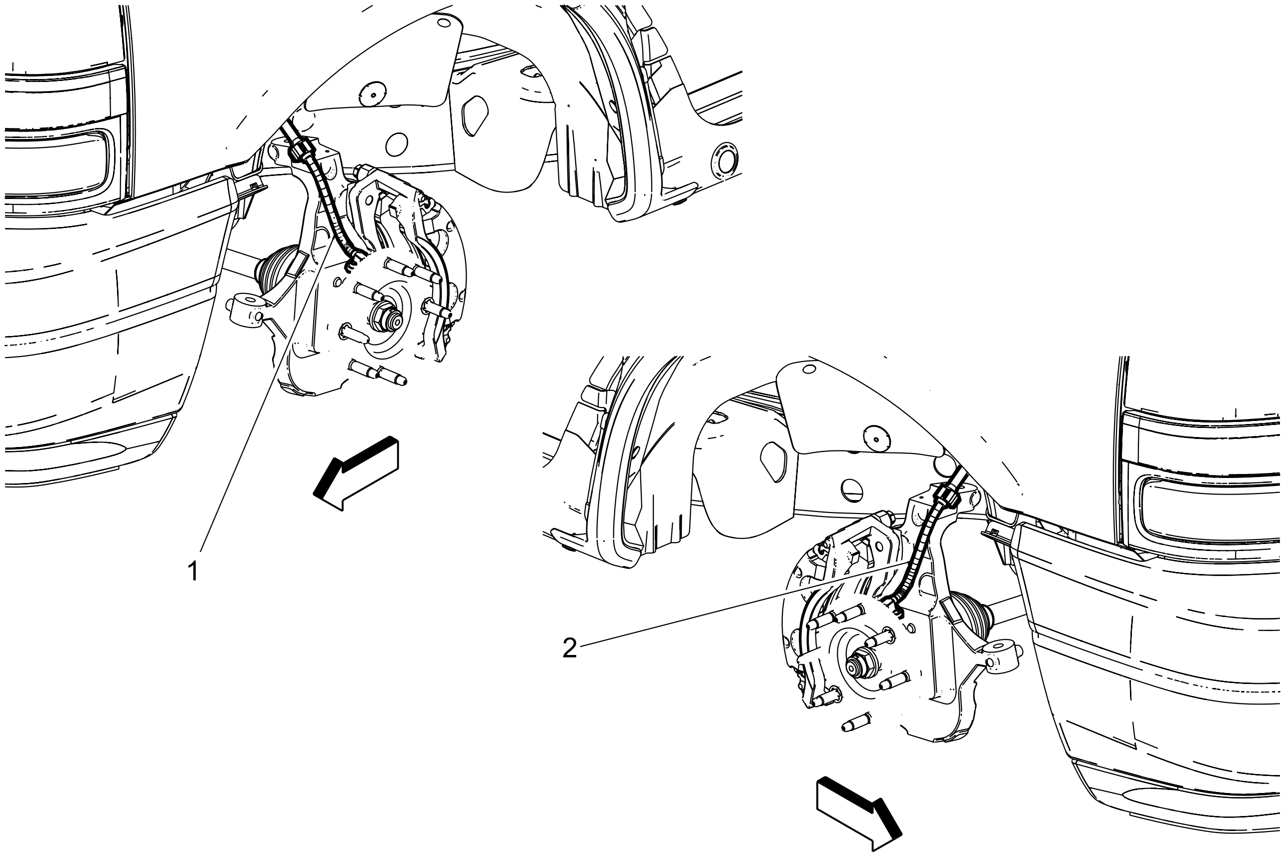
Front of Exhaust System Components (LGH)



Items

1. Q61 Reductant Injector (LGH)
2. B131D Exhaust Temperature Sensor 4 (LGH)
3. B259 Exhaust Pressure Sensor
4. B131C Exhaust Temperature Sensor 3 (LGH)
5. B195B Nitrogen Oxides Sensor 2 (LGH)

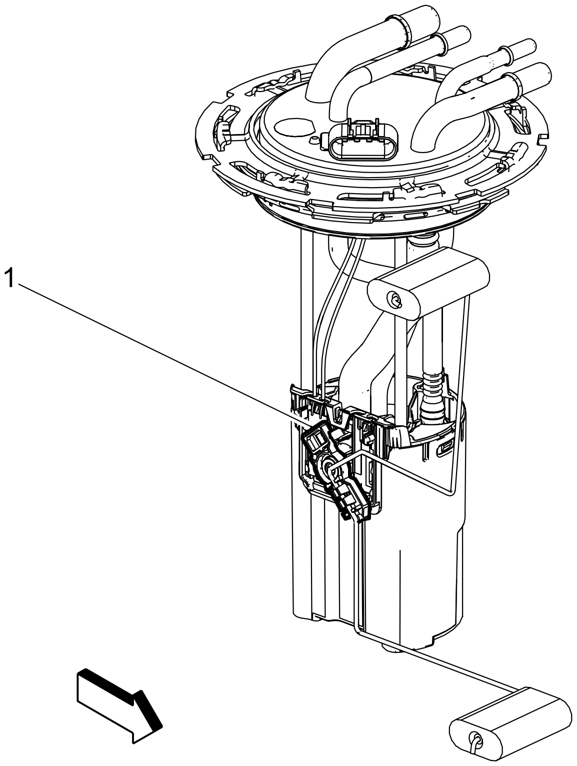
Front Wheel Speed Sensor Components (LGH)



Items

1. B5LF Wheel Speed Sensor - Left Front
2. B5RF Wheel Speed Sensor - Right Front

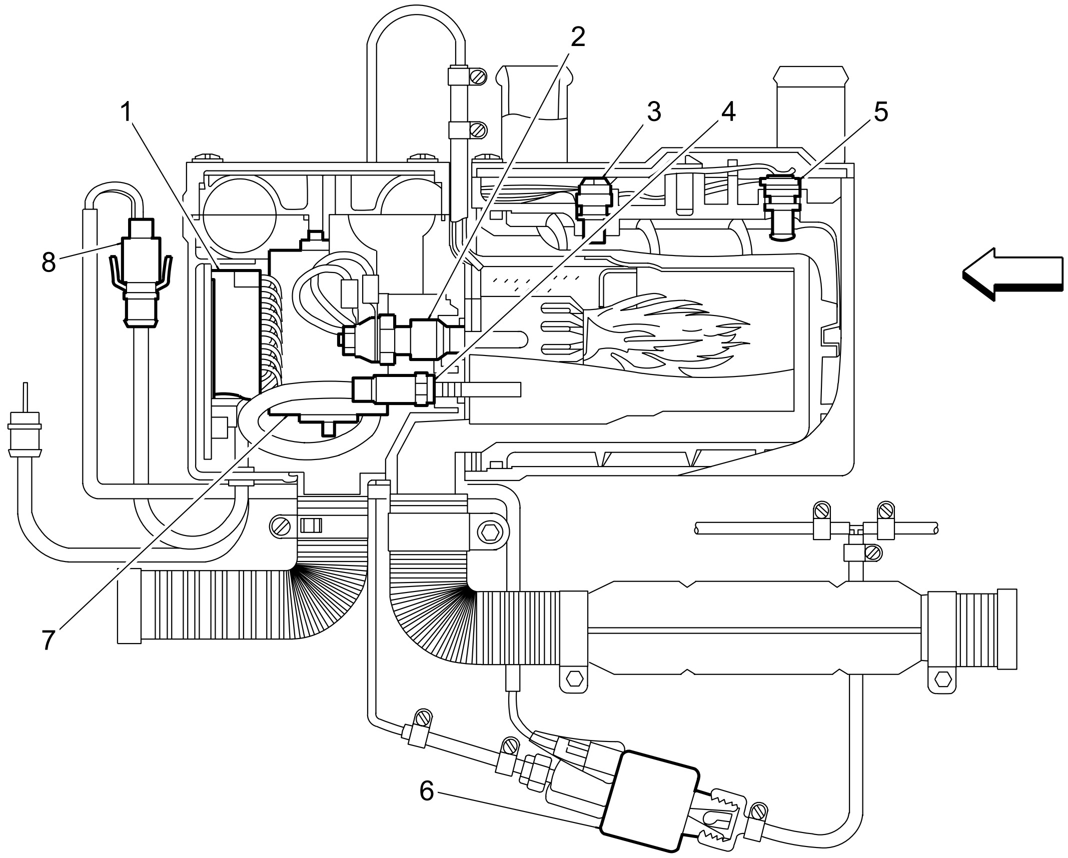
Inside of Fuel Tank Components (LGH)



Items

1.	B46 Fuel Level Sensor

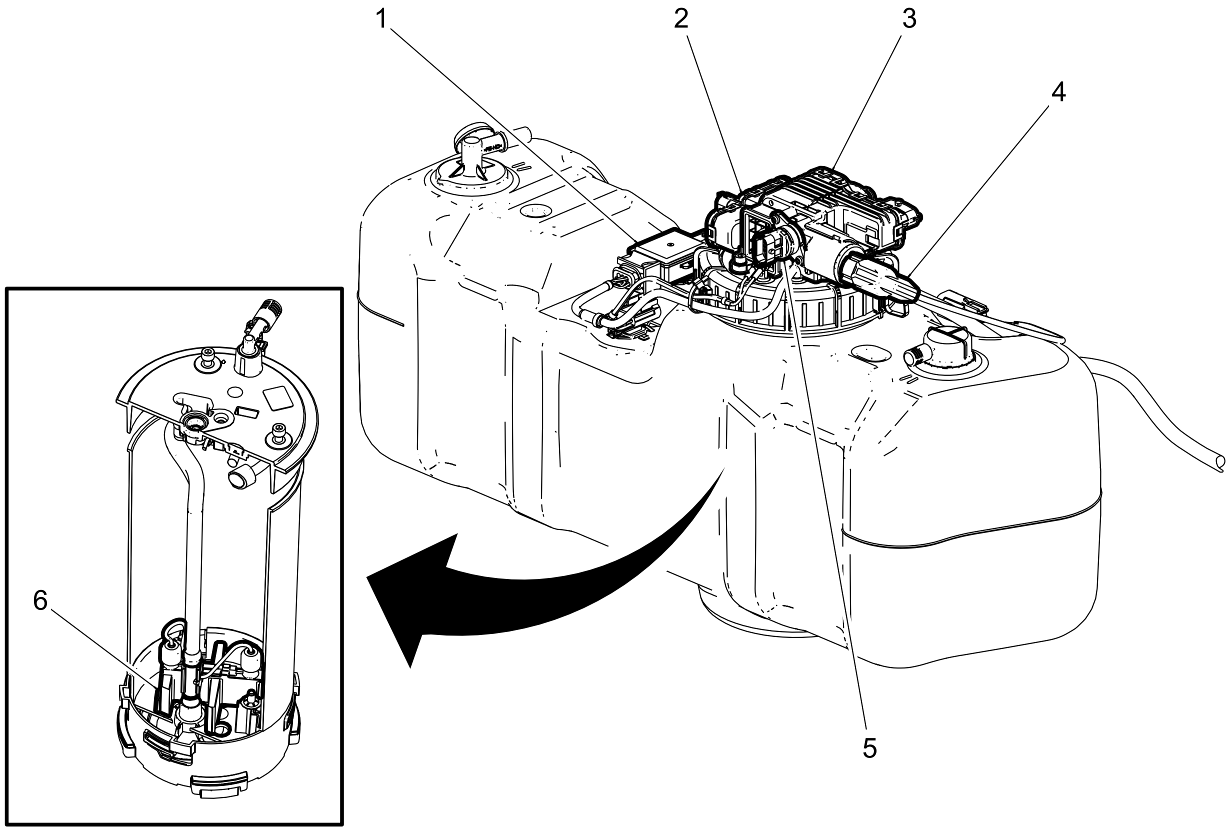
Coolant Heater (K08)



Items

1. K10 Coolant Heater Control Module (K08)
2. E20 Coolant Heater Glow Plug (K08)
3. B134A Coolant Heater Air Temperature Sensor (K08)
4. B134B Coolant Heater Combustion Sensor (K08)
5. B134C Coolant Heater Overheat Sensor (K08)
6. G7 Coolant Heater Fuel Pump (K08)
7. M11 Coolant Heater Blower Motor (K08)
8. E19 Coolant Heater (K08)

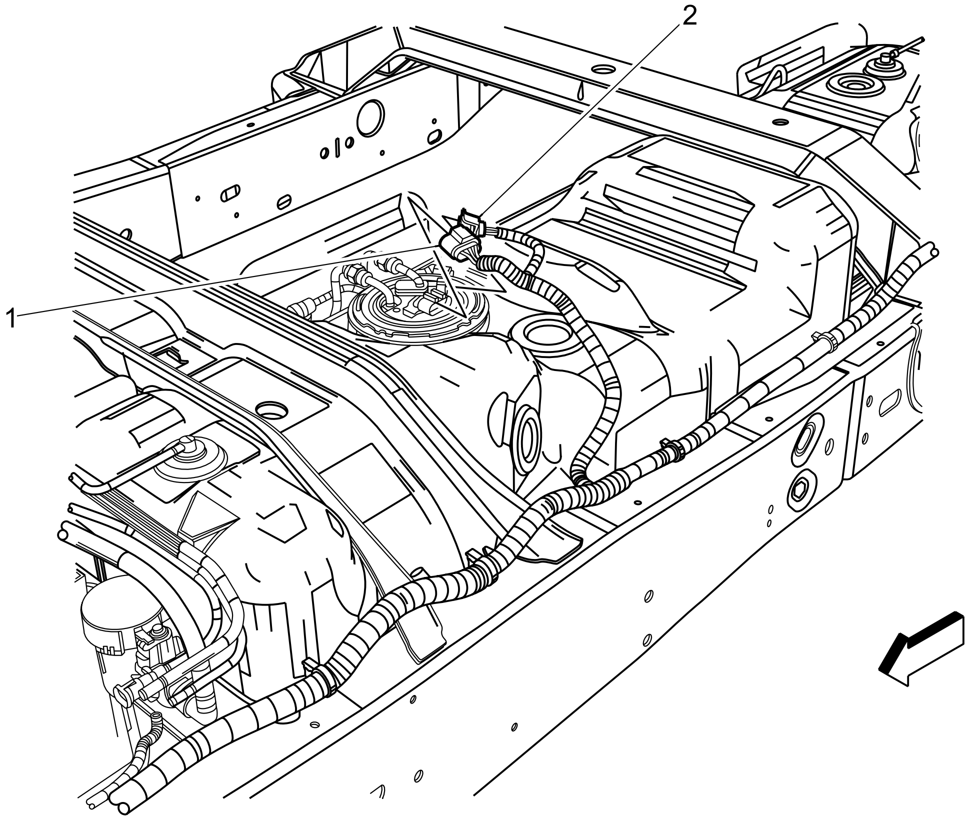
Reductant Tank Components (LGH)



Items

1. B212 Reductant Sensor Module (LGH)
2. Q62 Reductant Purge Solenoid Valve (LGH)
3. G33 Reductant Pump (LGH)
4. E52 Reductant Line Heater (LGH)
5. B194 Reductant Pressure Sensor (LGH)
6. E53 Reductant Tank Heater (LGH)

Fuel Tank (without NE7)

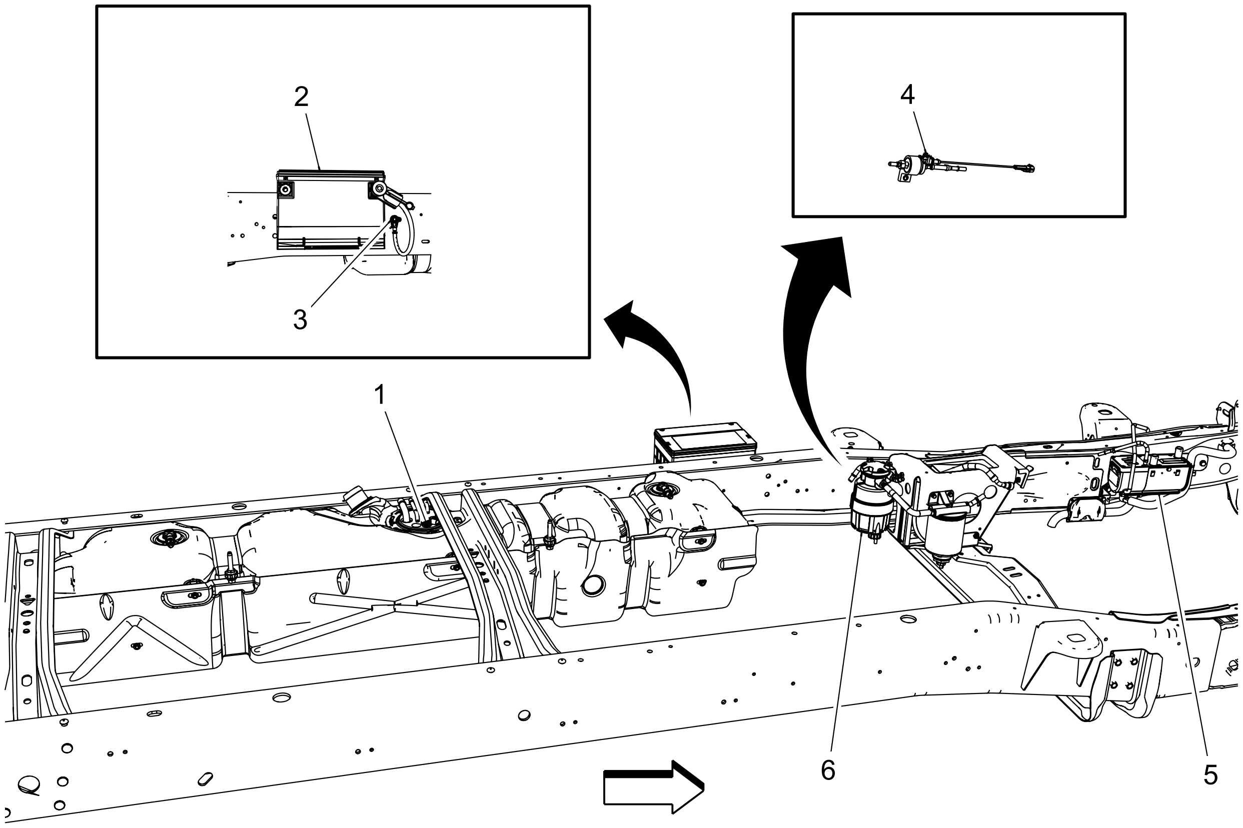


Items

1. A7 Fuel Pump and Level Sensor Assembly (LU3, L20, LMF or L96)

2. B150 Fuel Tank Pressure Sensor

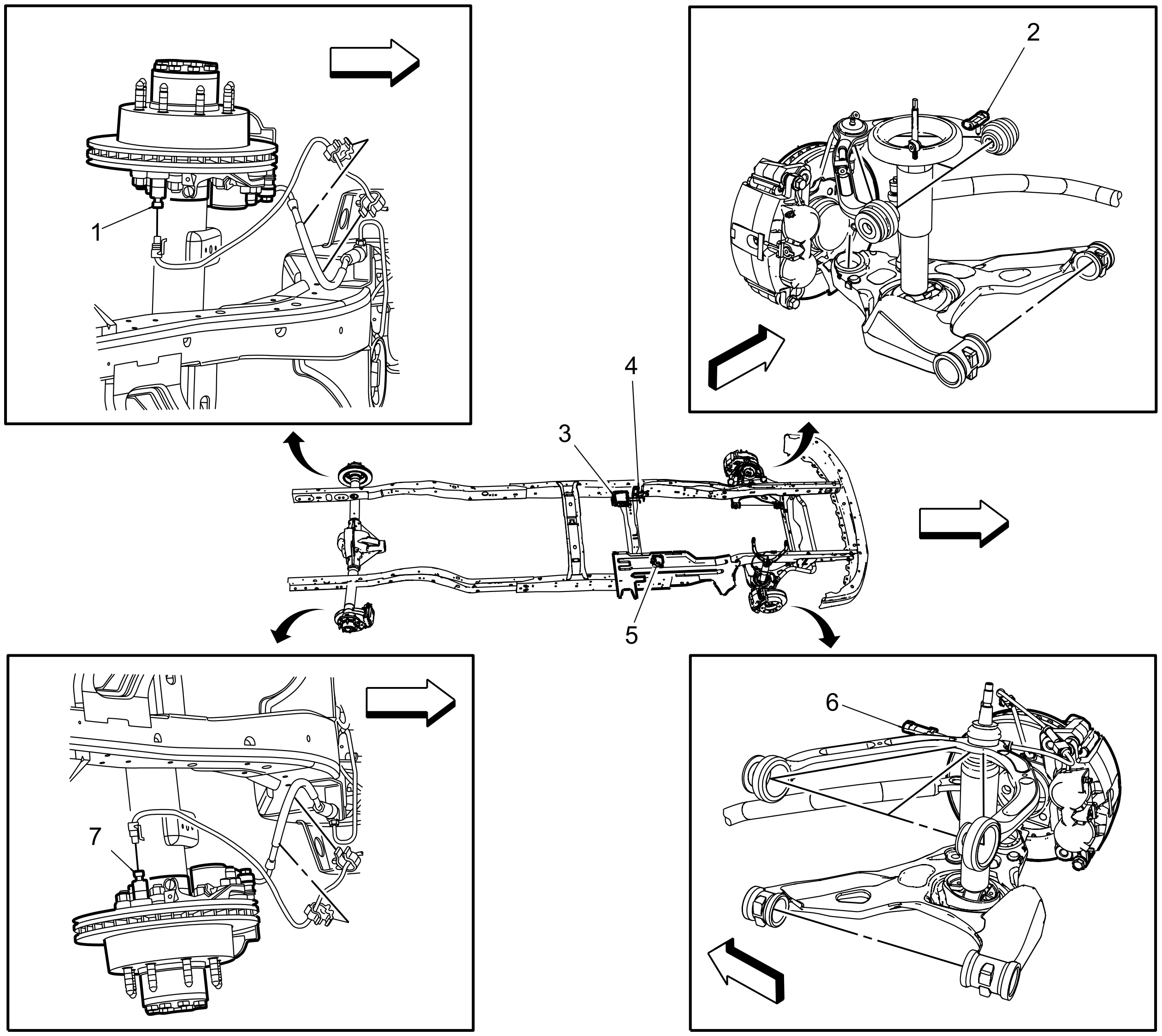
Left Side Frame (LMM or LGH)



Items

1. B46 Fuel Level Sensor
2. C1B Battery - Auxiliary (LGH)
3. G305 (LGH)
4. G7 Coolant Heater Fuel Pump (K08)
5. E19 Coolant Heater (K08)
6. G12 Fuel Pump

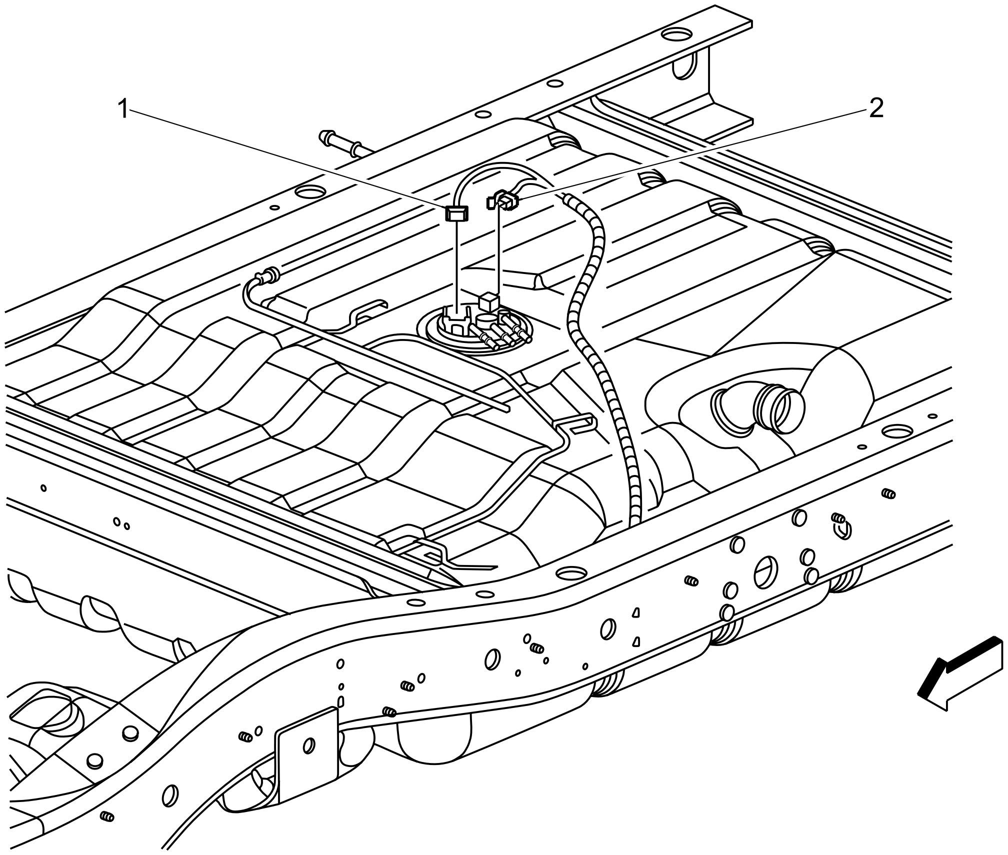
Frame and Underbody



Items

1. B5LR Wheel Speed Sensor - Left Rear (JL4)
2. B5LF Wheel Speed Sensor - Left Front
3. K17 Electronic Brake Control Module
4. B21C Brake Pressure Differential Switch
5. B119 Multi-axis Acceleration Sensor (JL4)
6. B5RF Wheel Speed Sensor - Right Front
7. B5RR Wheel Speed Sensor - Right Rear (JL4)

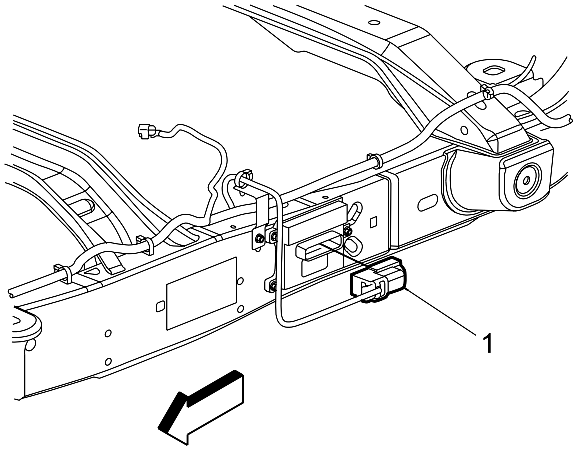
Fuel Tank (NE7)



Items

1. B150 Fuel Tank Pressure Sensor
2. A7 Fuel Pump and Level Sensor Assembly (LU3, L20, LMF or L96)

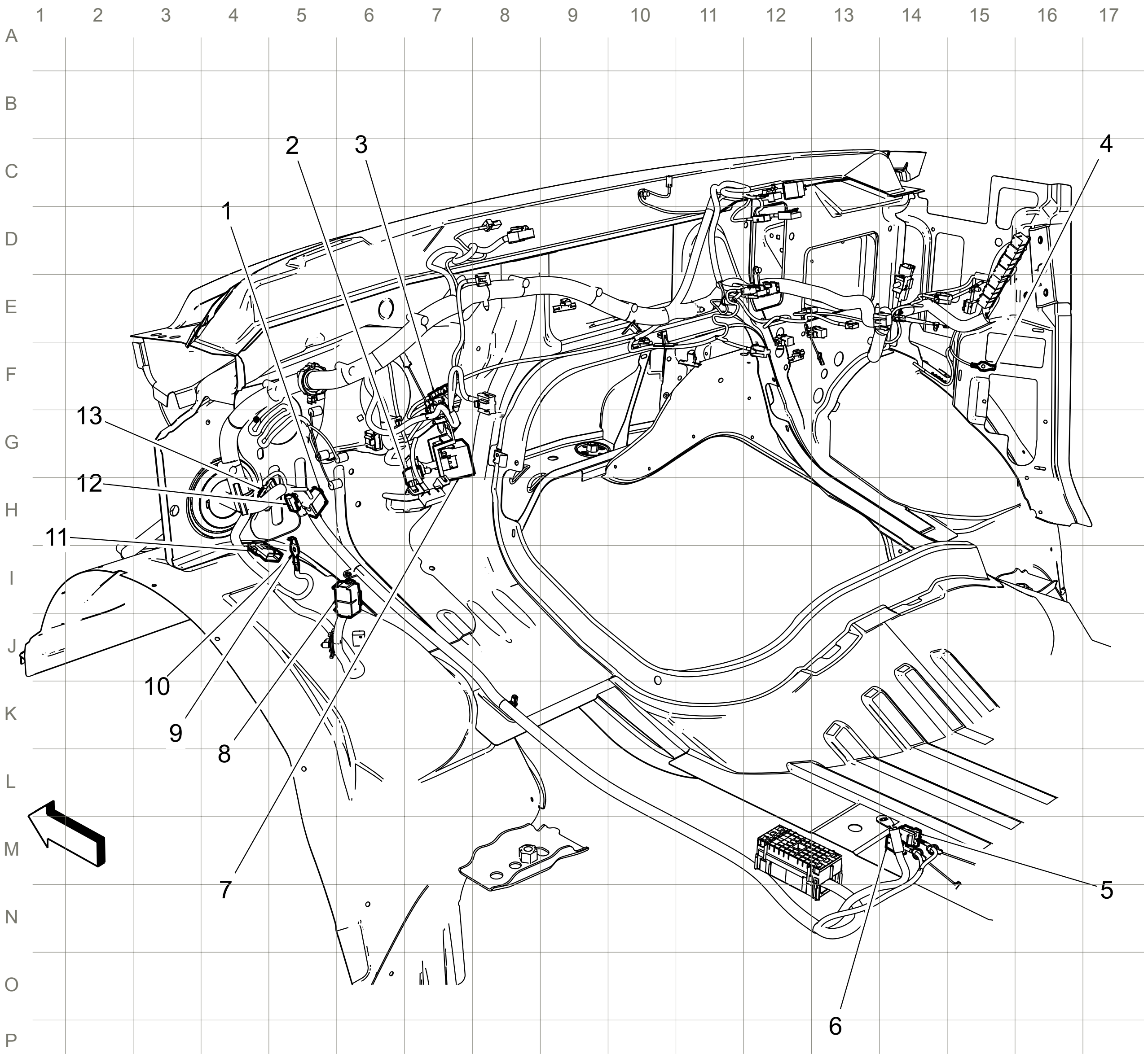
Left Rear Frame Rail (LMF)



Items

1. K38 Chassis Control Module (LMF)

Instrument Panel Harness Routing - Passenger Compartment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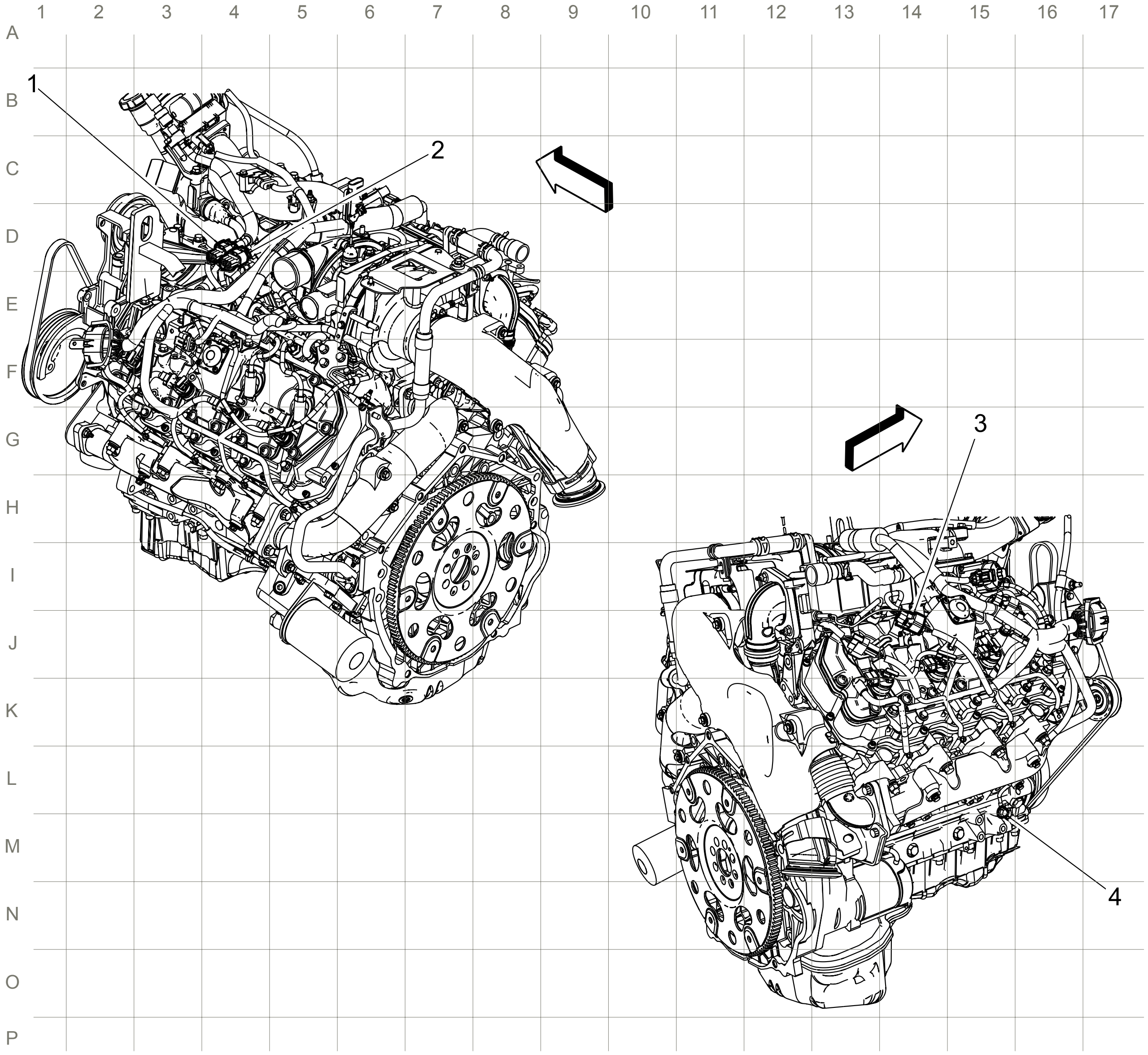
Items

1. JX250
2. X221
3. X276
4. G304
5. X331
6. X330
7. X200
8. X318
9. G301
10. G302
11. X222 (YF2 or YF7)

11. X222 (YF2 or YF7)
12. X220
13. JX200

Engine Harness Routing - Part of Assembly (POA) (LMM)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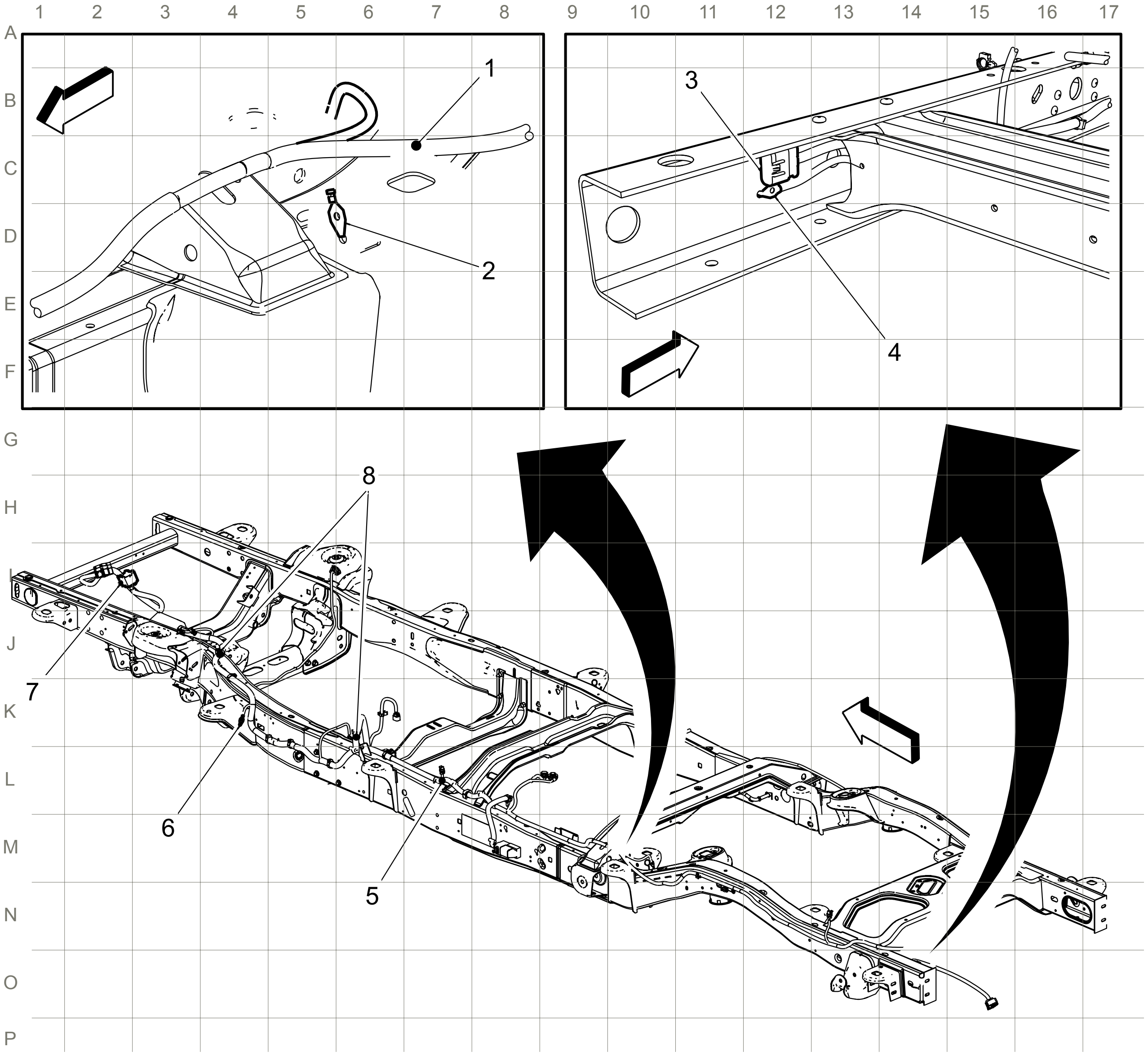
Items

1. X110 (LGH)
2. X111
3. X112 (LGH)
4. G104 (LGH)

Chassis Harness Routing (LU3, L20, LMF or L96)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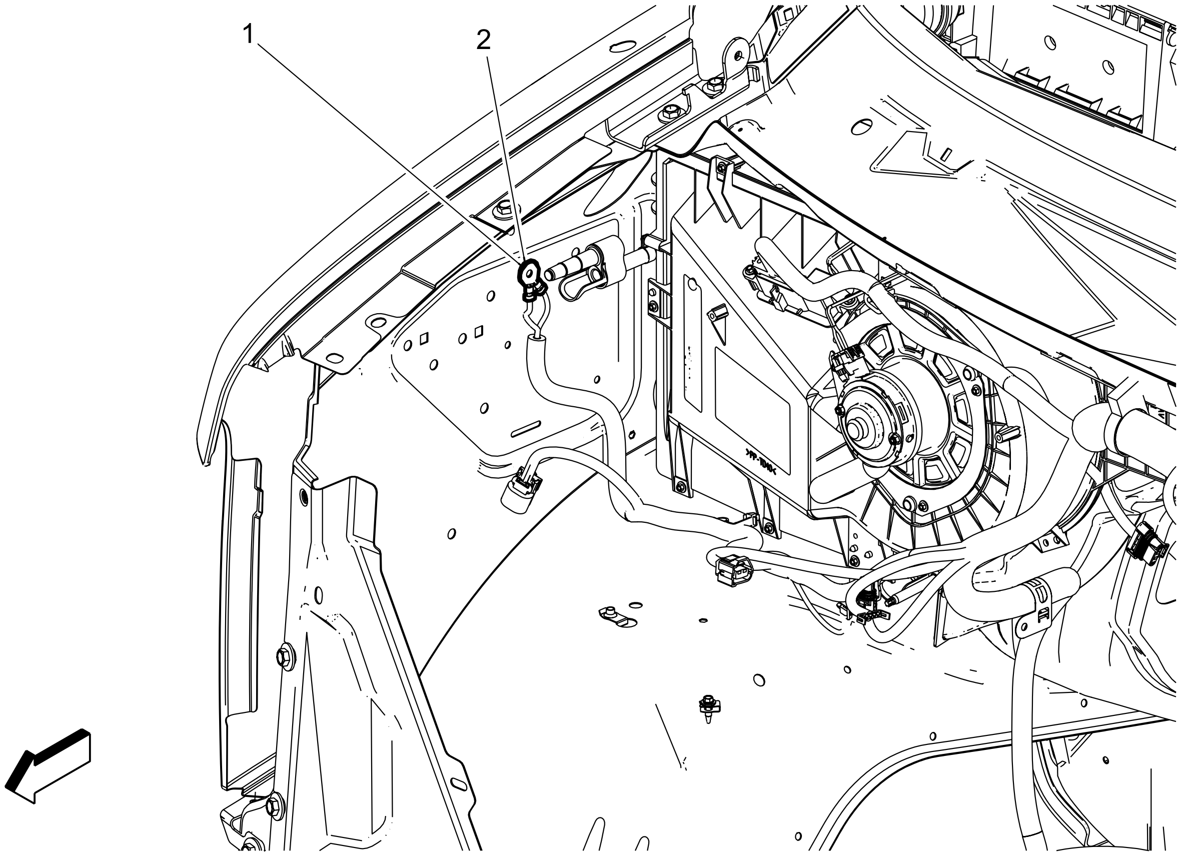
Items

1. J402
2. G400
3. X405
4. G400
5. J301
6. G300
7. X101
8. J315

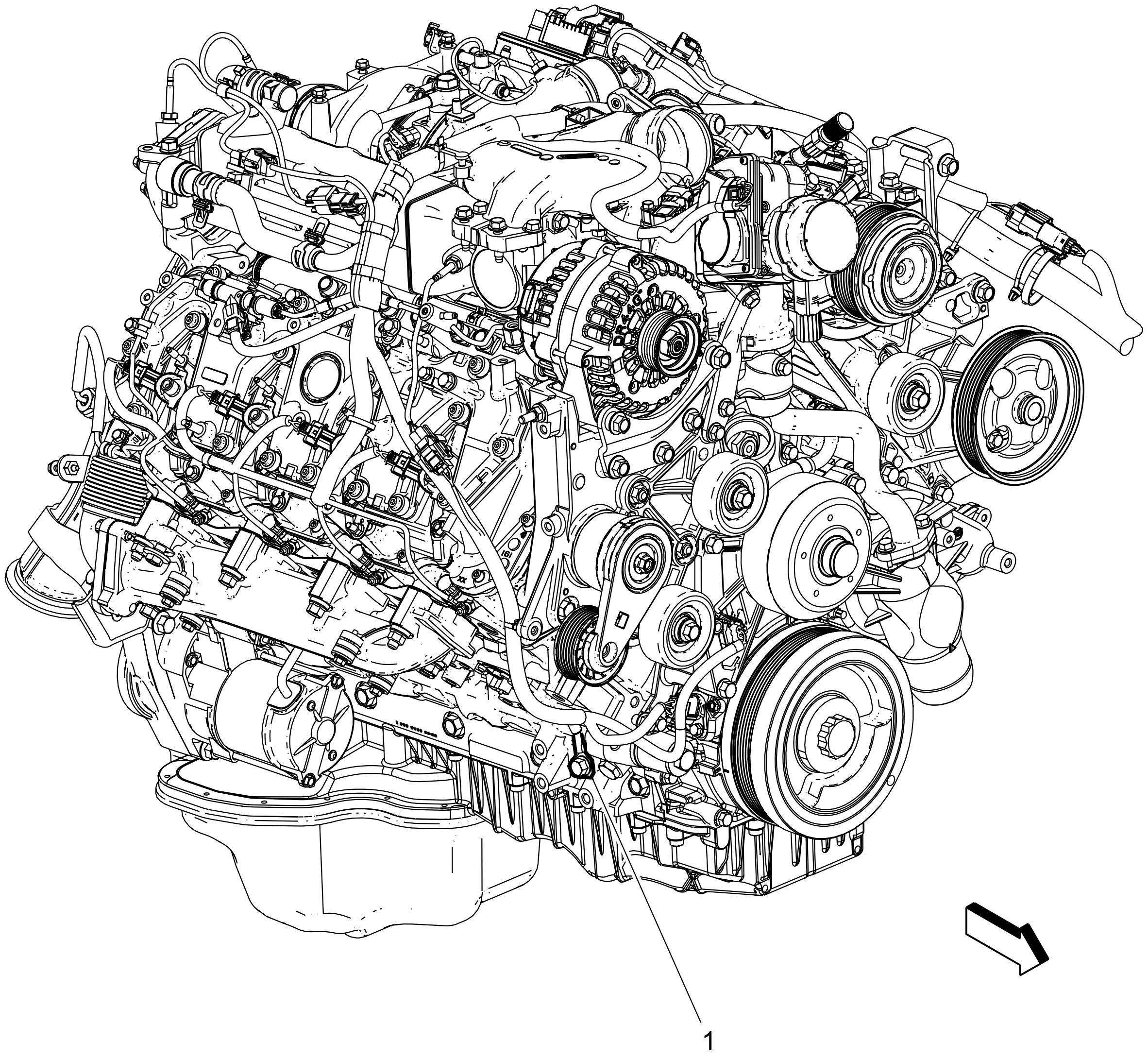
G102/G103 (LGH)



Items

1. G102
2. G103

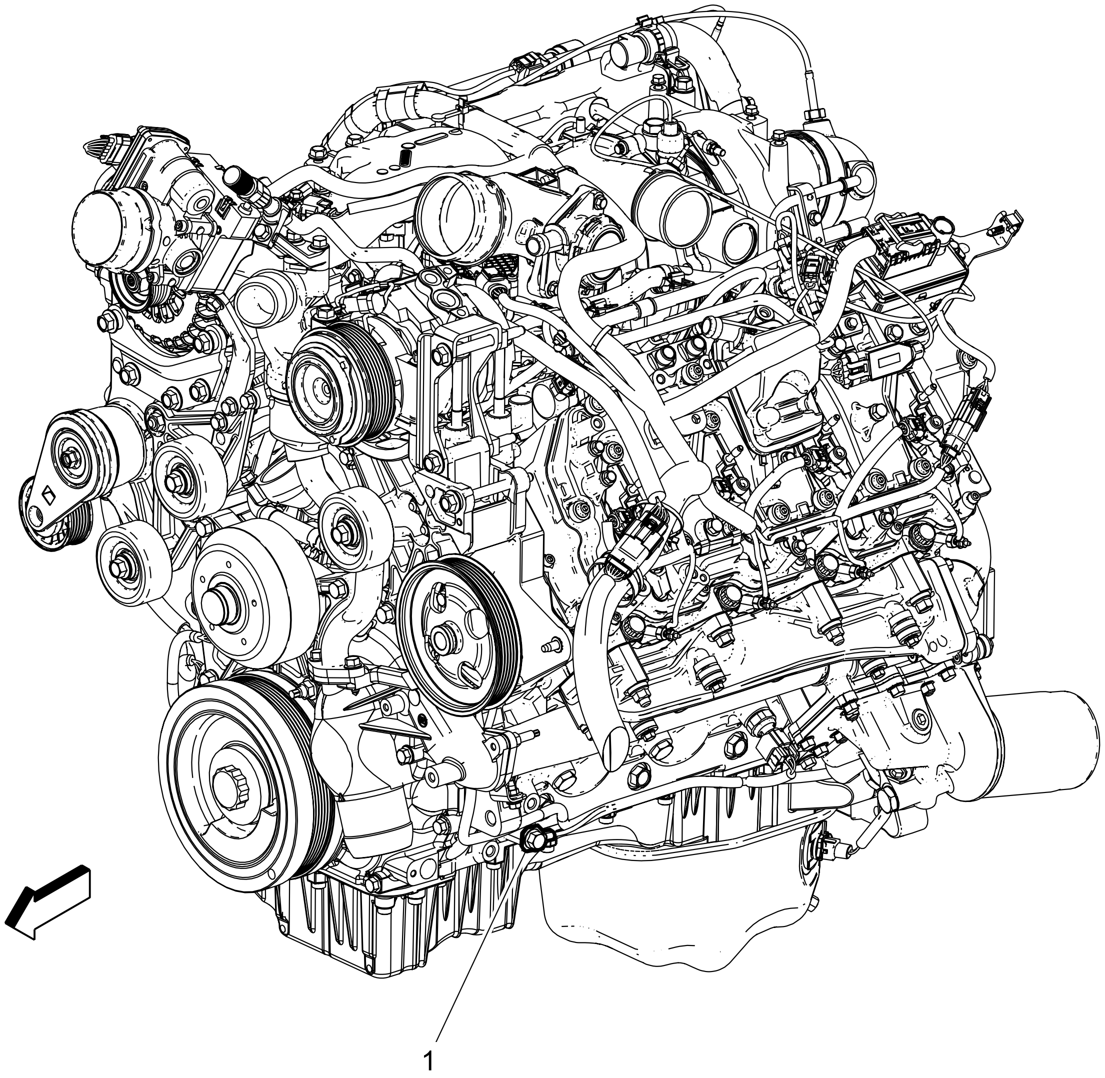
G109 (LGH)



Items

1. G109 Ground

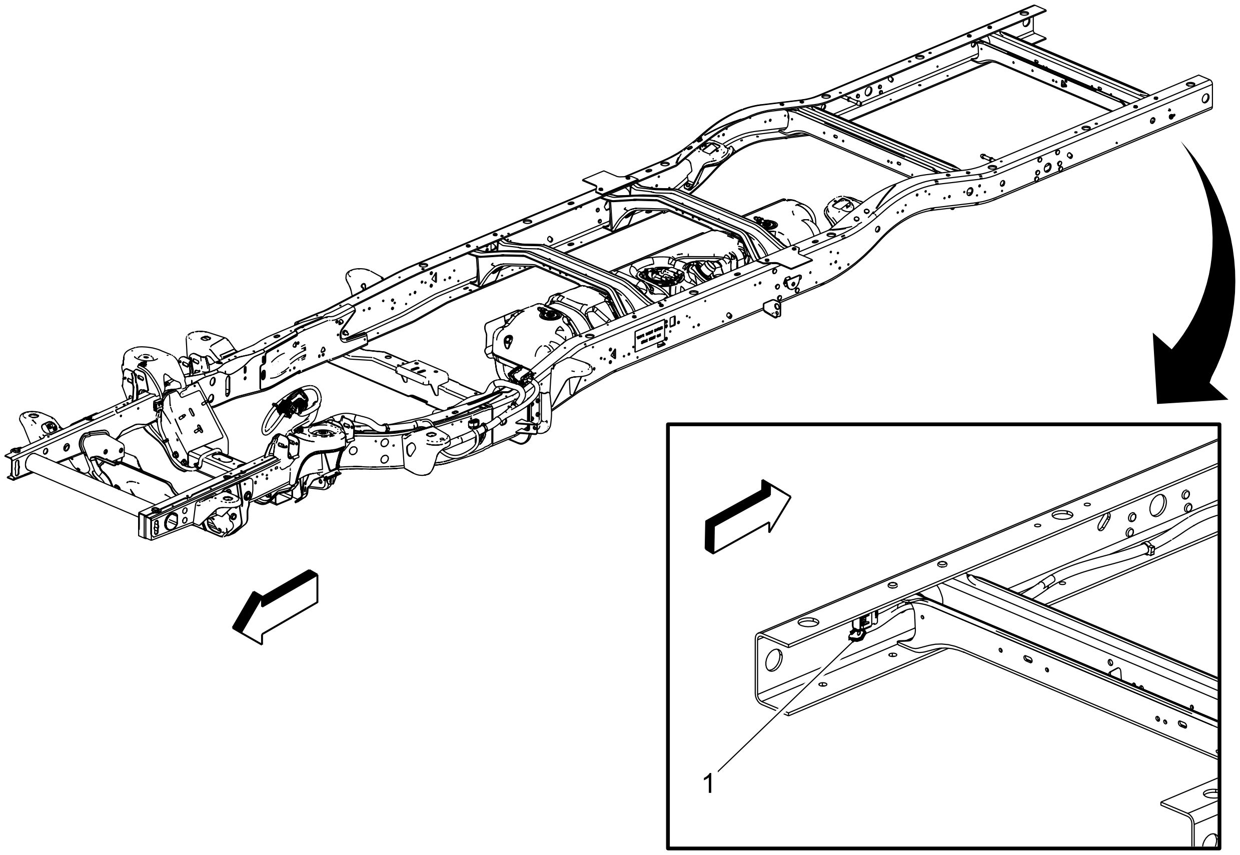
G110 (LGH)



Items

1. G110

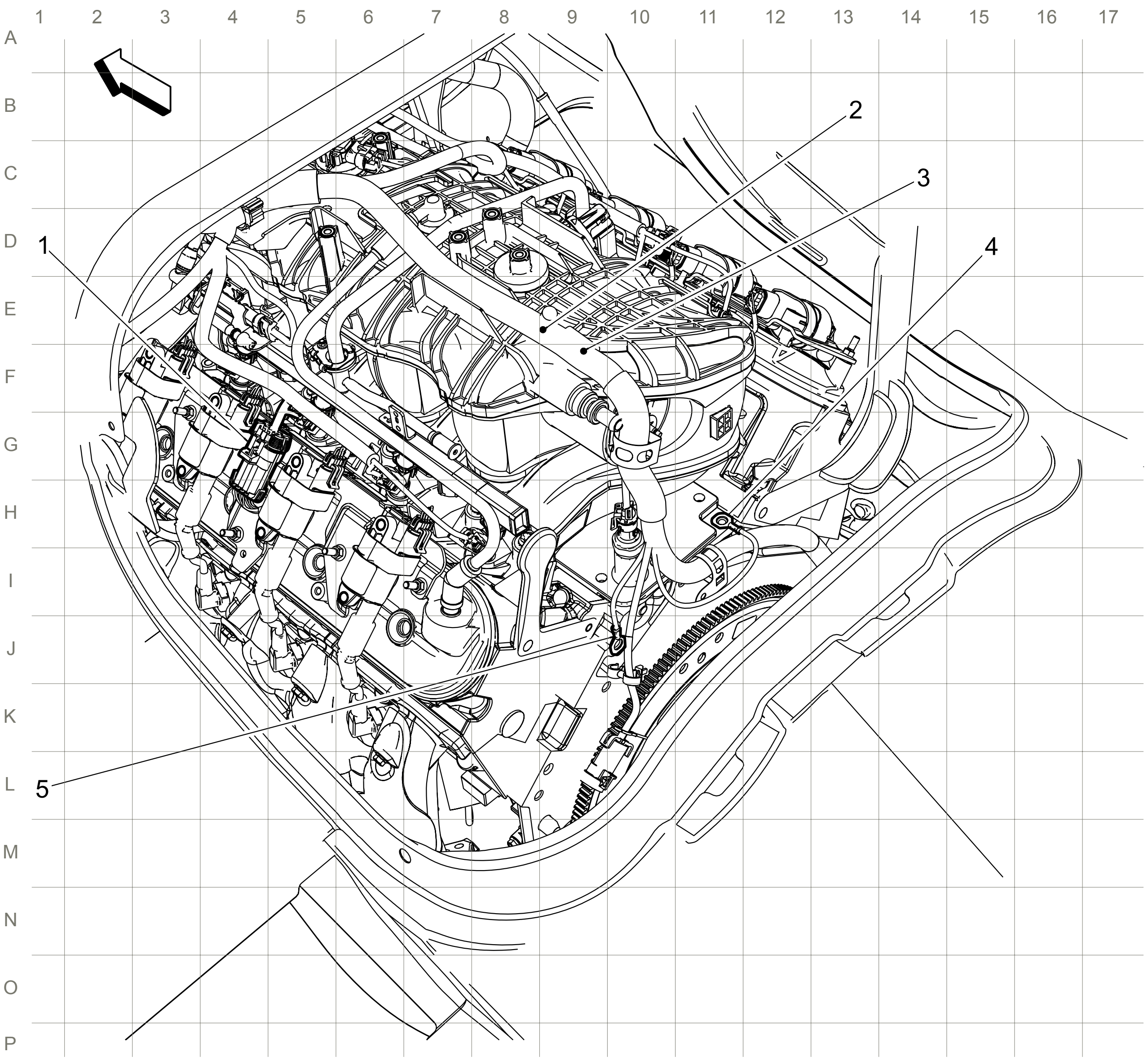
G400 (LGH)



Items

1. G400

Engine Harness Routing - Left Rear (LMF)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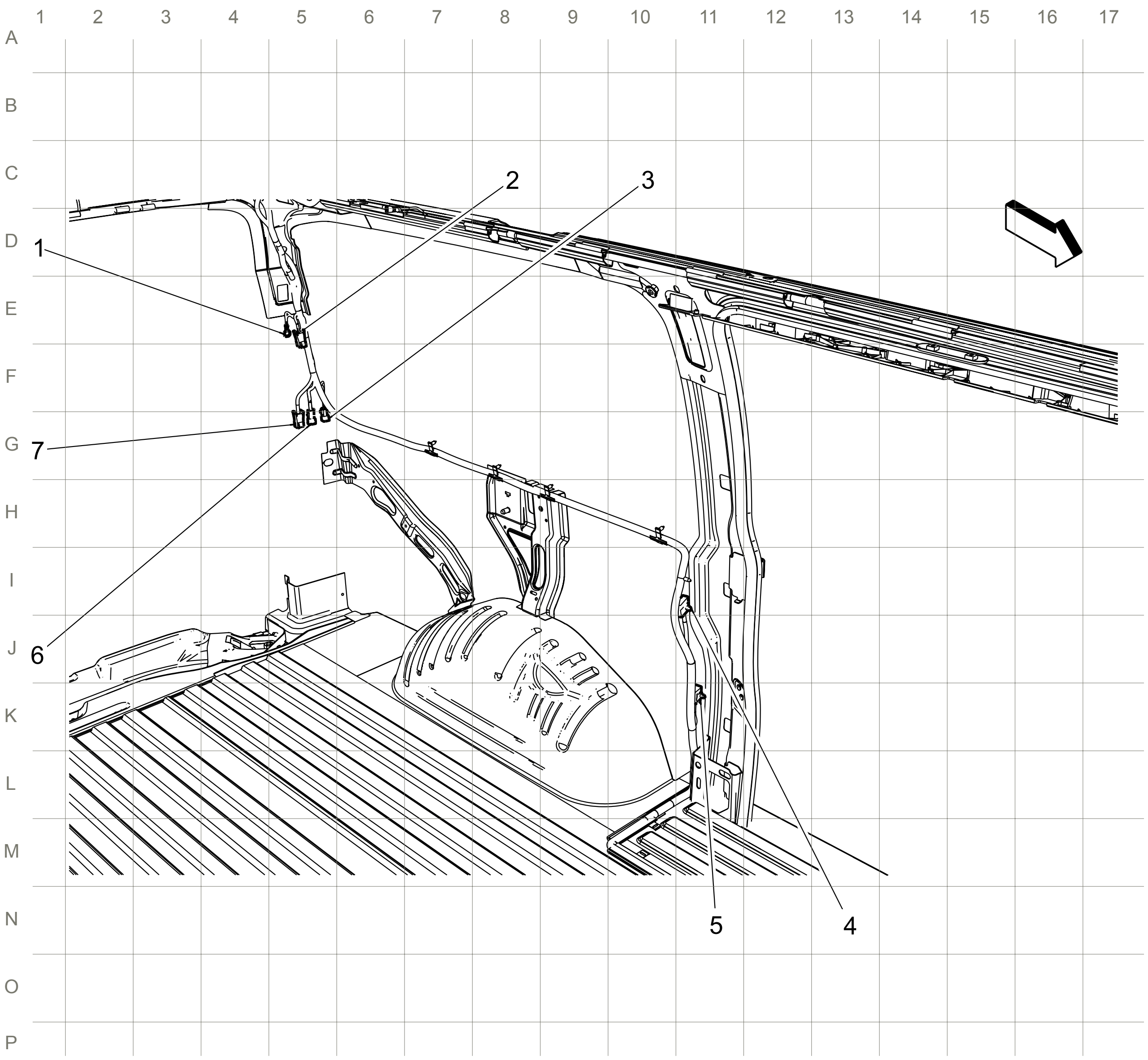
Items

1. X126 (L20, LMF, L96 or LC8)
2. J102
3. J101
4. G102
5. G103

Body Harness Routing - Left Rear (Passenger and Cargo)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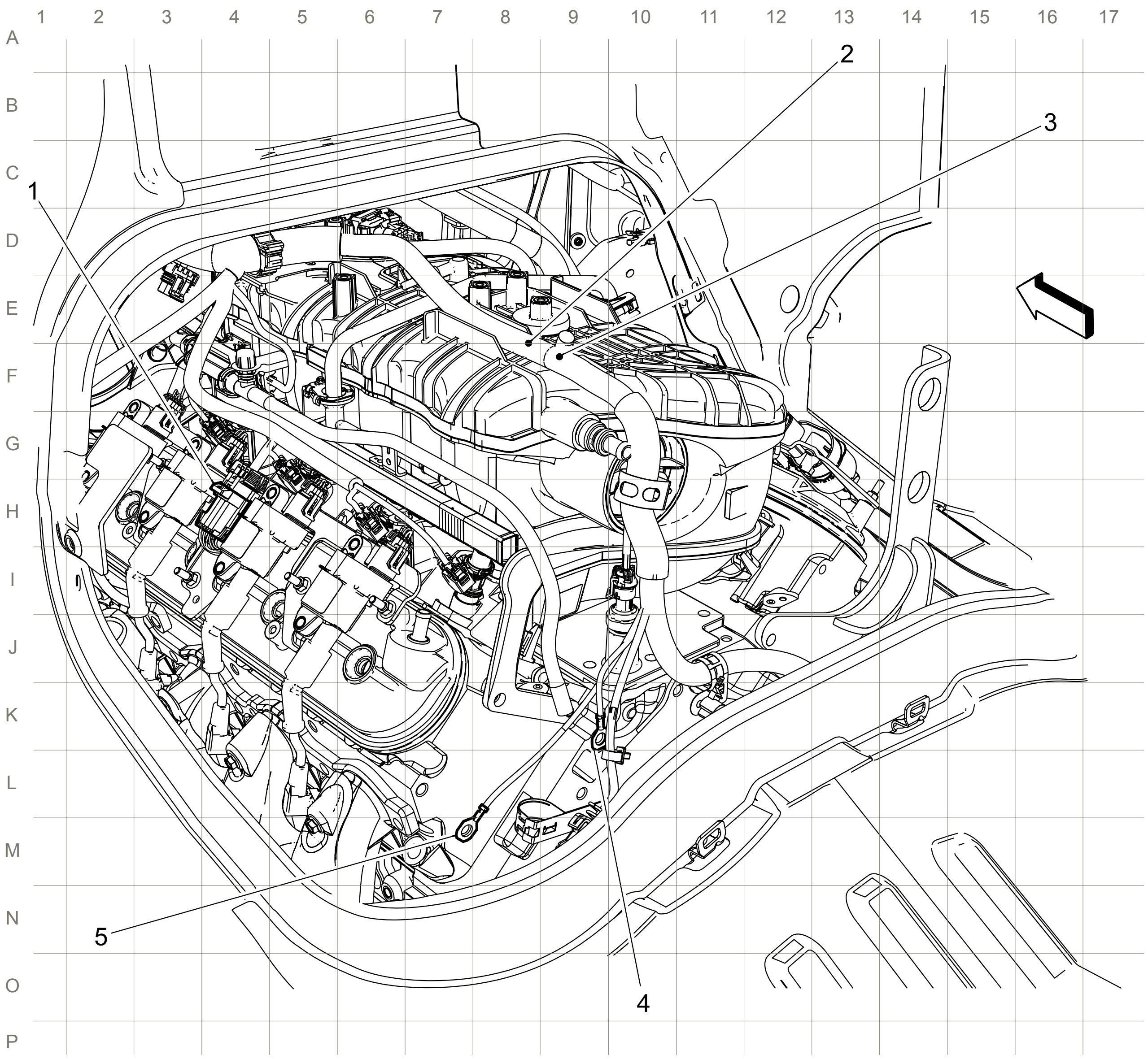
Items

1. G402 (Passenger or Cargo)
2. X401
3. X411
4. X321 (YF2 or YF7)
5. X320 (YF2 or YF7)
6. X407 (C36 with C69)
7. X409 (C36 with C69)

Engine Harness Routing - Left Rear (L20 or L96)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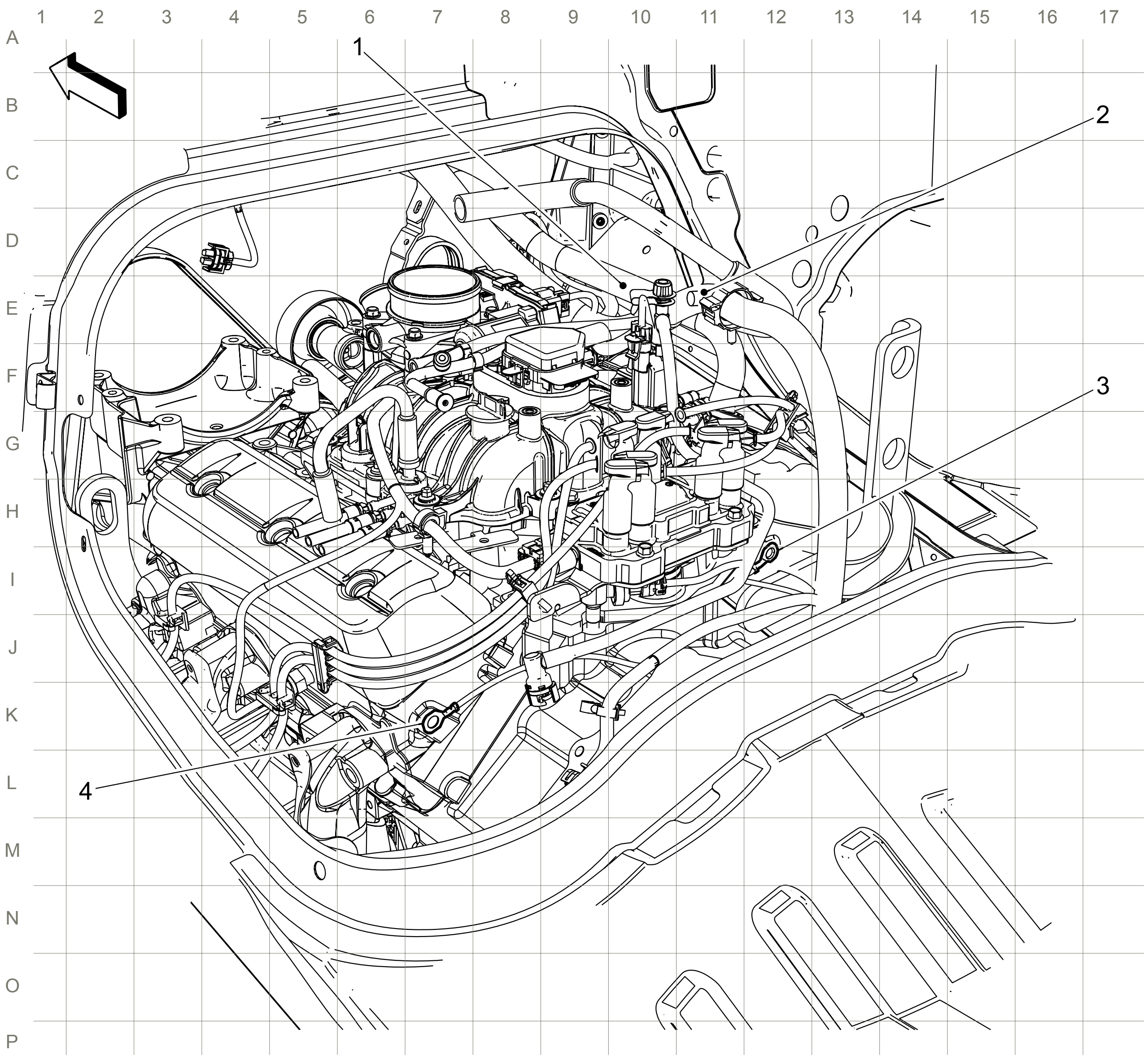
Items

1. X126 (L20, LMF, L96 or LC8)
2. J101
3. J102
4. G103
5. G102

Engine Harness Routing - Left Rear (LU3)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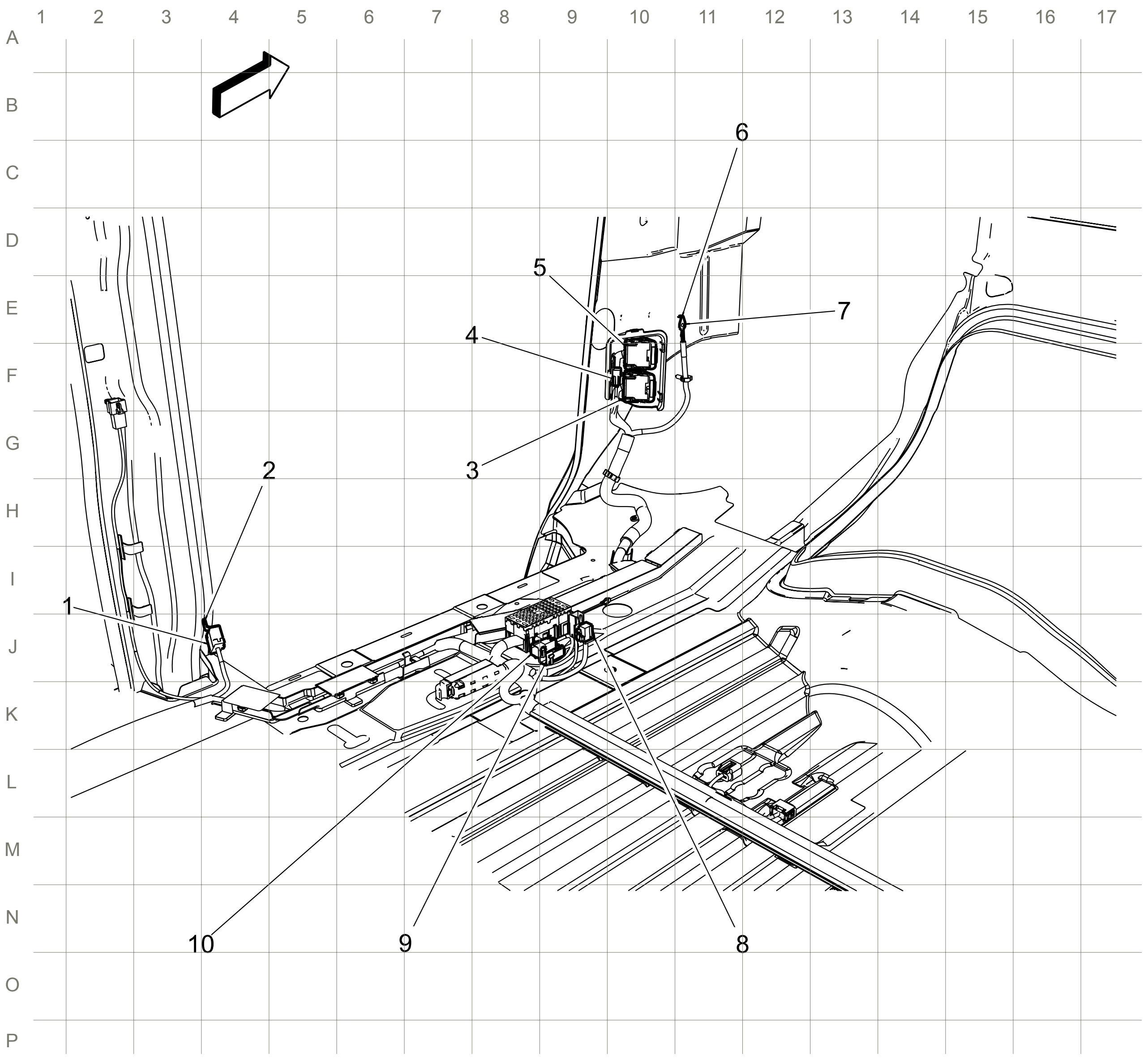
Items

1. J101
2. J102
3. G102
4. G103

Body Harness Routing - Left Front Passenger Compartment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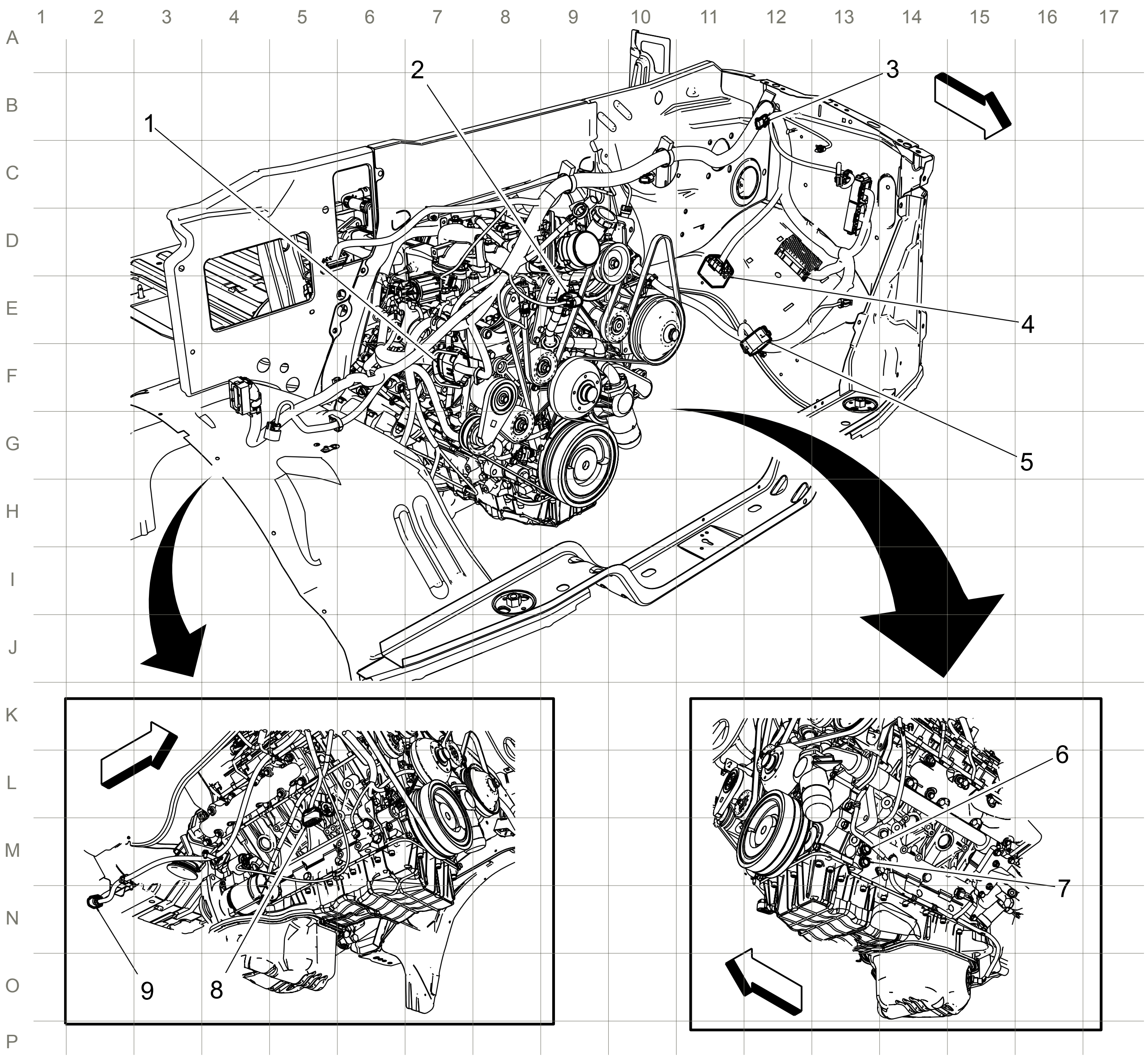
Items

1.	JX347
2.	G347
3.	X500
4.	X319 (C36 or ENC)
5.	X318
6.	G301
7.	G302
8.	X307
9.	X330
10.	X331

Engine Harness Routing - Front View (LMM)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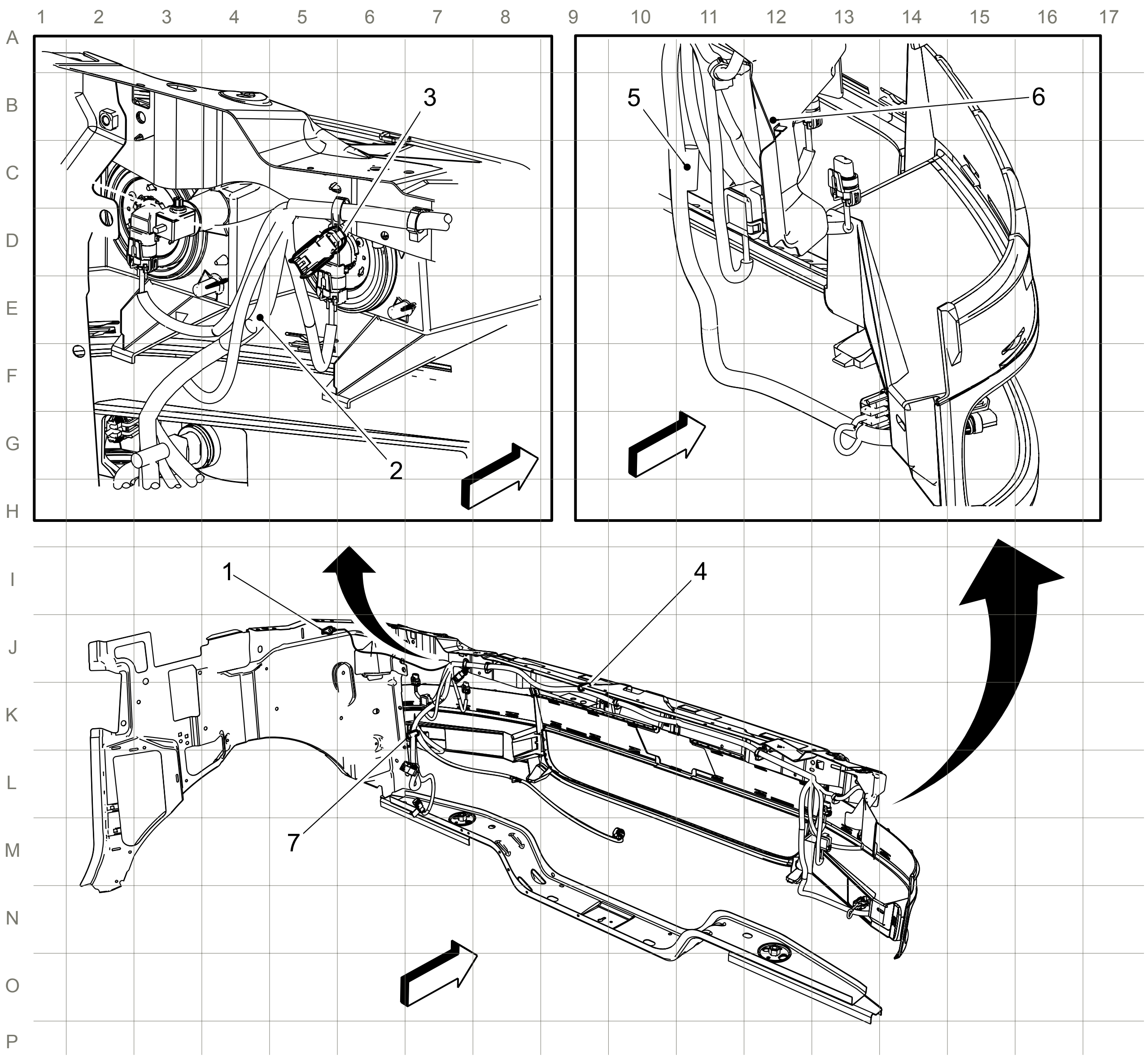
Items

1. X108 (LGH)
2. X142 (LGH)
3. X109
4. X101
5. X100
6. G102
7. G103
8. X105
9. X115 (LGH Cutaway)

Forward Lamp Harness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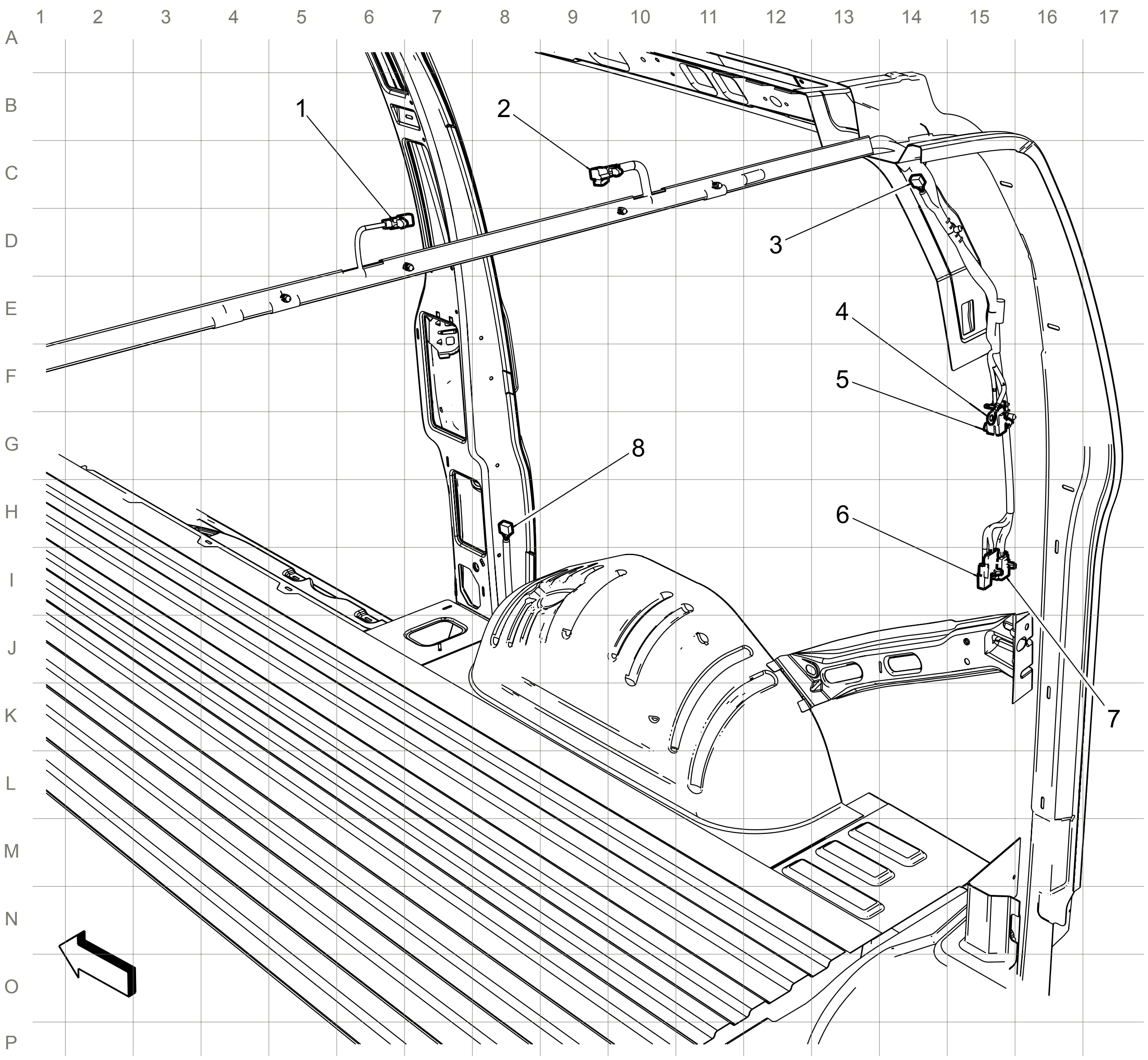
Items

1. G100
2. J110
3. X150 (UFA)
4. J121
5. J118
6. G101
7. J122

Body Harness Routing - Right Rear (Passenger and Cargo)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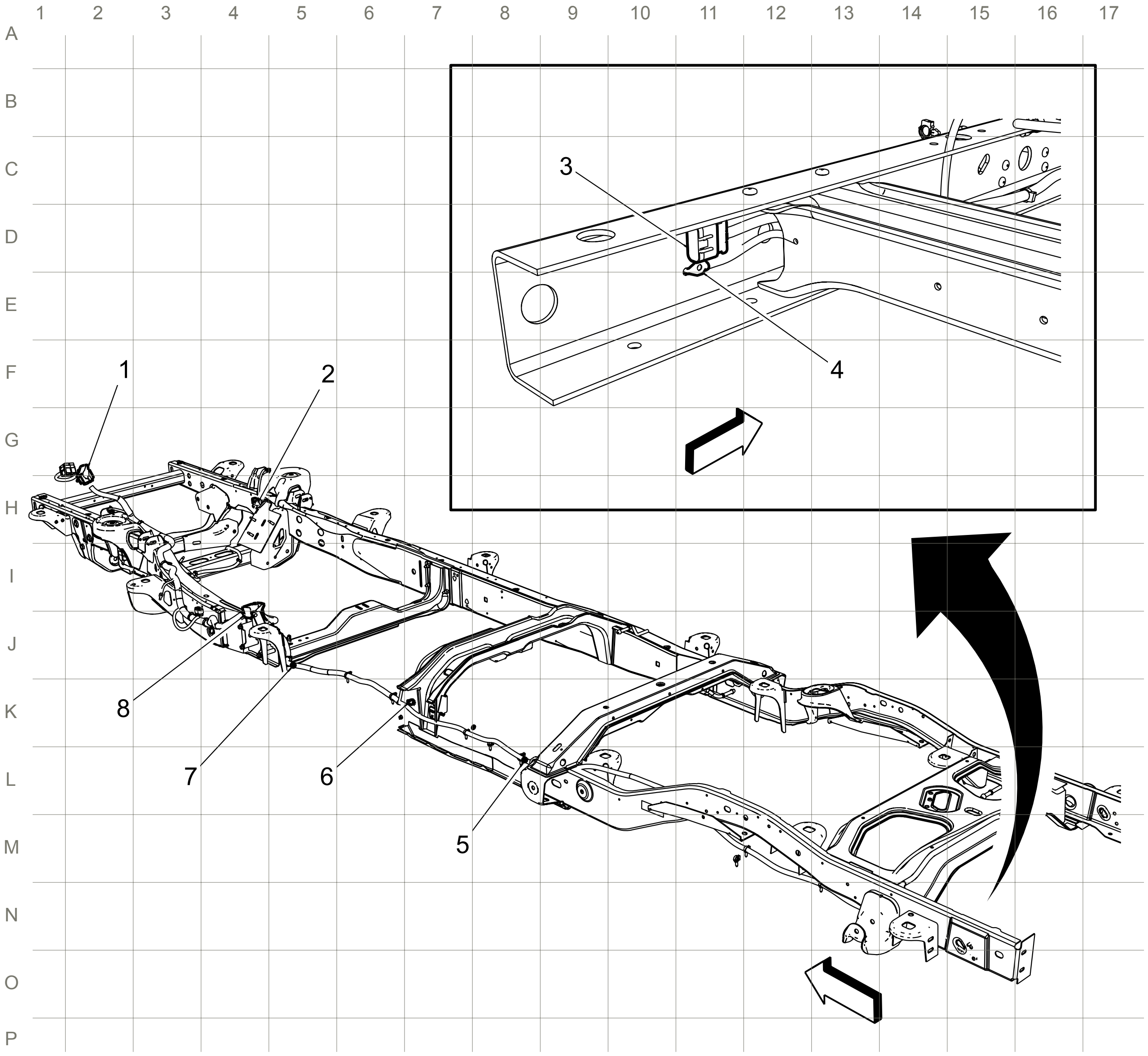
Items

1. X419
2. X415
3. X420
4. G401 (Passenger or Cargo)
5. X402
6. X412
7. X400
8. X324 (ASF)

Chassis Harness Routing (LMM)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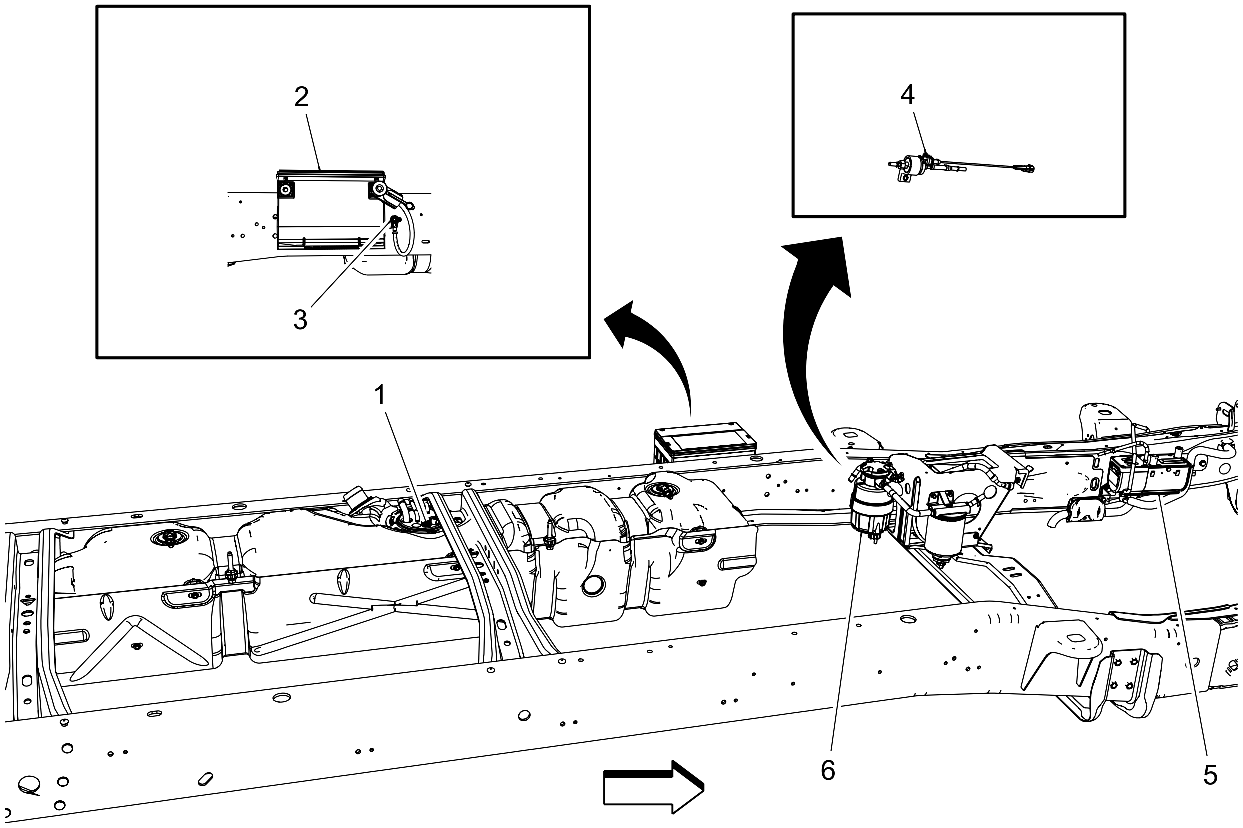
Items

1. X101
2. X105
3. X405
4. G400
5. J402
6. X305 (K08)
7. J119 (LGH)
8. X174 (LGH)

Left Side Frame (LMM or LGH)

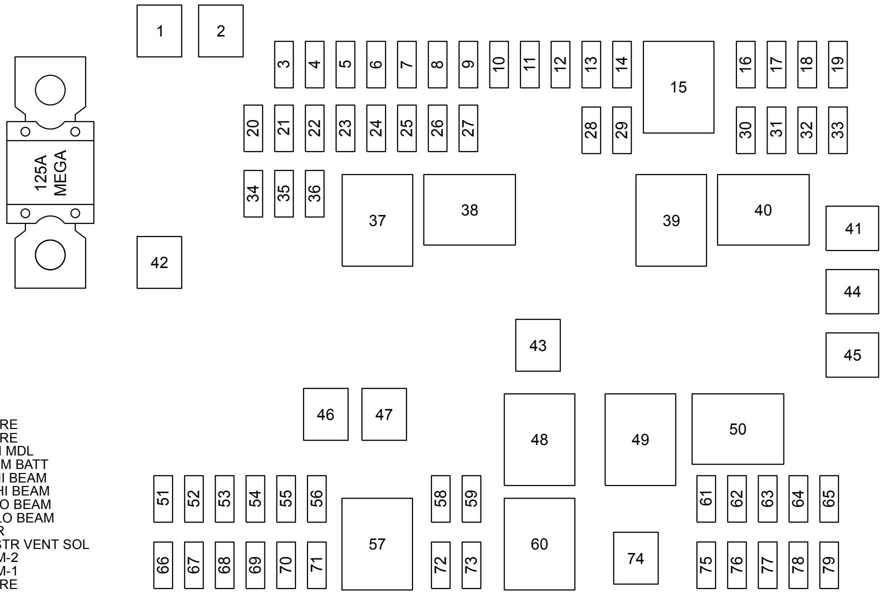


Items

1. B46 Fuel Level Sensor
2. C1B Battery - Auxiliary (LGH)
3. G305 (LGH)
4. G7 Coolant Heater Fuel Pump (K08)
5. E19 Coolant Heater (K08)
6. G12 Fuel Pump

Electrical Center Identification Views

X50A Fuse Block - Underhood Label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MINI FUSES

3	15A	RT STOP/TRN TRLR
4	10A	SPARE
5	10A	SPARE
6	10A	FSCM IGN
7	10A	BCM-5
8	10A	BCM-7
9	10A	BCM-4
10	10A	IPC
11	30A	TRLR WRG
12	10A	SPARE
13	10A	BRK SW
14	15A	WASH
16	20A	HORN
17	15A	TRANS
18	15A	A/C CMPRSR
19	10A	ECM BATT
20	10A	SPARE
21	15A	LT STOP/TRN TRLR
22	10A	SPARE
23	15A	SPARE
24	30A	GAS FUEL PUMP
24	20A	DIESEL FUEL PUMP
25	20A	AUX PWR OUTLET
26	10A	BCM-3
27	10A	SEO
28	10A	AIRBAG
29	10A	STR/WHL/SNSR
30	15A	ECM IGN/GLOW PLUG MDL IGN
31	15A	TCM IGN
32	10A	TCM BATT
33	15A	SPARE
34	15A	SPARE
35	15A	FOH MDL
36	20A	FSCM BATT
51	10A	LT HI BEAM
52	10A	RT HI BEAM
53	10A	LT LO BEAM
54	10A	RT LO BEAM
55	25A	WPR
56	10A	CNSTR VENT SOL
58	10A	BCM-2
59	10A	BCM-1
61	15A	SPARE
62	10A	O2 SNSR 2 (POST)/EV FAN
63	10A	FAN CLTCH (EV)
64	15A	MAF/CNSTR VENT
65	20A	ODD IGN/INJ
66	10A	DRL2 (LOLVL-V22)
67	15A	DRL1 (UPLVL+V22)
68	15A	AUX STOP LAMP(S)
69	10A	SPARE
70		
71	15A	FUEL HTR
72	10A	BCM-6
73	20A	LTR/DLC
75	15A	V6 FUEL INJ
76	10A	SPARE
77	10A	O2 SNSR 1 (PRE)/CLS
78	10A	ECM PWR/TRN
79	20A	EVEN IGN/INJ

J-CASE FUSE

1	50A	ABS MTR
2	40A	ABS MDL
41	20A	SPARE
42	30A	TRLR WRG
43	40A	FAN HI
44	40A	STRTR SOL
45	30A	ECM PWR/TRN
46	30A	SPARE
47	40A	FAN LO
74	40A	FRT BLWR

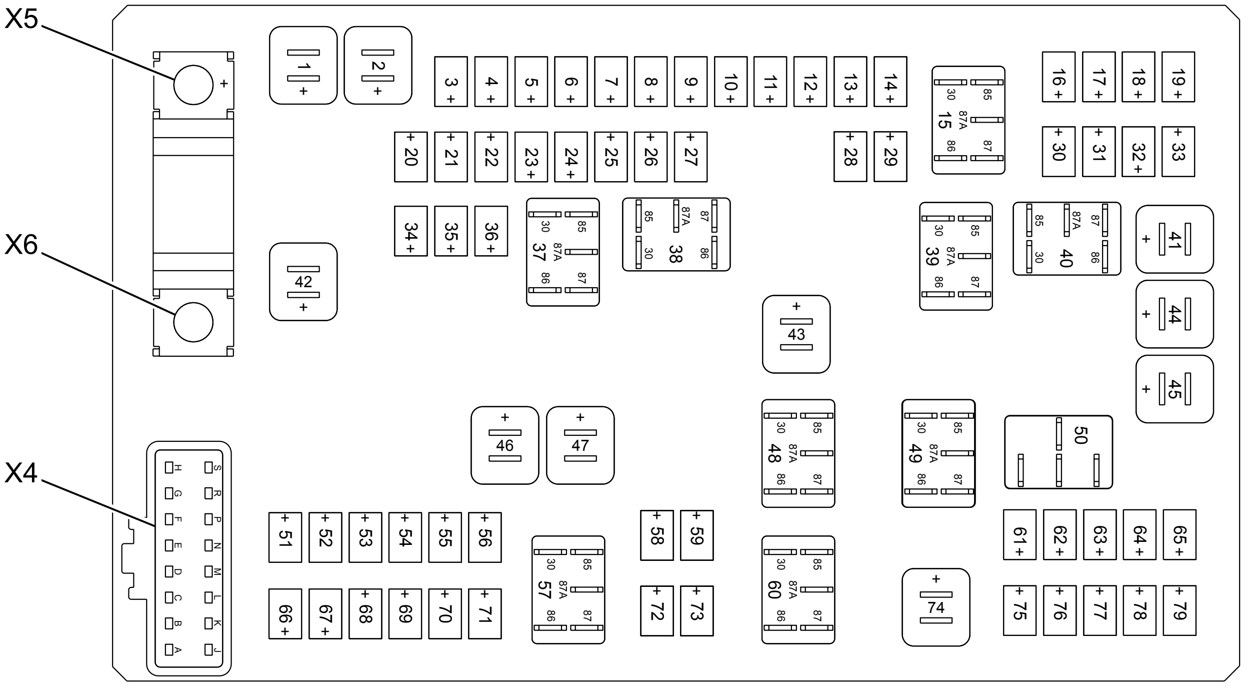
RELAYS

15	MICRO G8V	RUN/CRNK
37	MICRO G8V	SPARE
38	MICRO G8V	FUEL PUMP
39	MICRO G8V	CRNK
40	MICRO G8V	A/C CMPRSR
48	MICRO G8V	FAN HI
49	MICRO G8V	PWR/TRN
50	SOLID STATE	FAN CLTCH (EV)
57	MICRO G8V	FAN LO
60	MICRO G8V	FAN CNTRL

CIRCUIT BOARD RELAY (NOT SHOWN)

K3	WPR HI
K5	HORN/WASH
K6	LO BEAM
K7	HI BEAM
K9	TRLR LT STOP/TRN
K11	STOP LAMP(S)
K13	WPR
K18	TRLR RT STOP/TRN
K19	DRL

X50A Fuse Block - Underhood Top View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Fuse Block – Underhood Usage

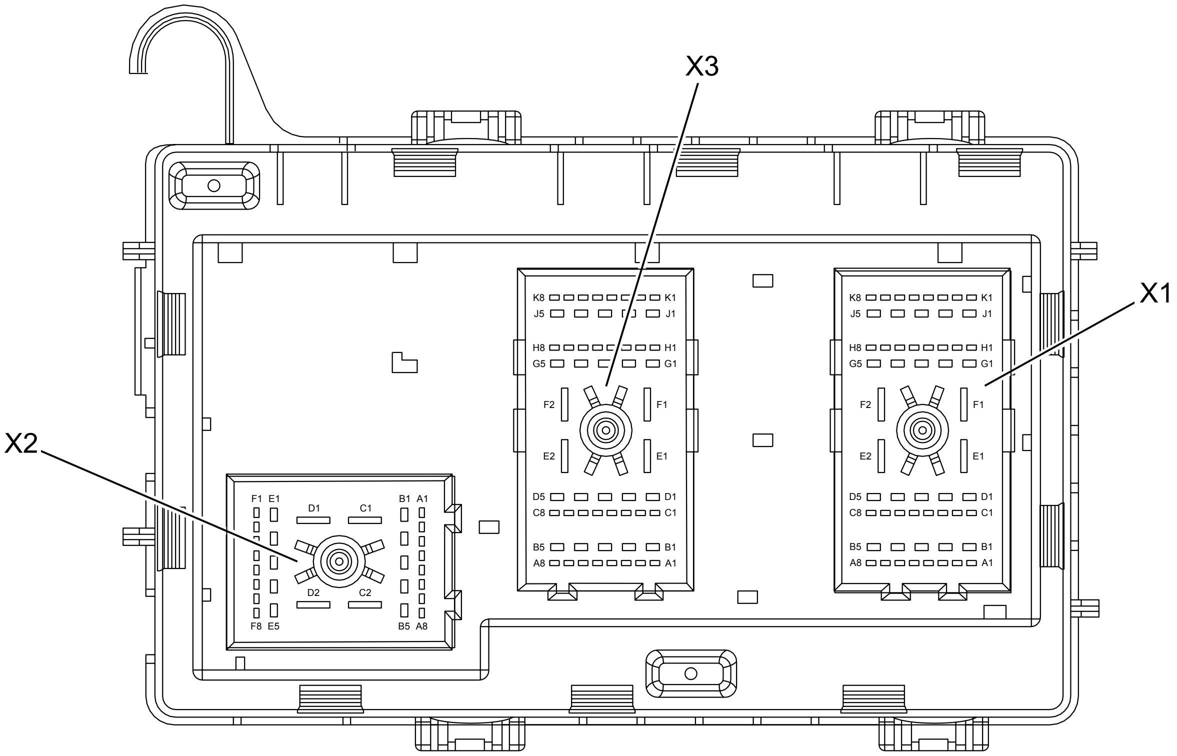
No.	Device Label Name	Device Assigned Name	Rating	Description
1	ABS MTR Fuse		50A	Electronic Brake Control Module (EBCM)
2	ABS MDL Fuse		40A	Electronic Brake Control Module (EBCM)
3	RT STOP/TRN TRLR Fuse		15A	Trailer Connector
4	SPARE Fuse		10A	Not Used
5	SPARE Fuse		10A	Not Used
6	FCSM IGN Fuse		10A	Fuel Pump Flow Control Module (LMF)
7	BCM–5 Fuse		10A	Body Control Module
8	BCM–7 Fuse		10A	Body Control Module
9	BCM–4 Fuse		10A	Body Control Module
10	IPC Fuse		10A	Instrument Panel Cluster (IPC)
11	TRLR WRG Fuse		30A	Blunt Cut (UY7)
12	SPARE Fuse		10A	Not Used
13	BRK SW Fuse		10A	Stop Lamp Switch
14	WASH Fuse		15A	Windshield Washer Fluid Pump

15	KR93 Ignition Run/Crank Relay		—	AIRBAG, BRK SW, ECM IGN/GLOW PLUG MDL IGN, FCSM IGN (LMF), IPC, STR/WHL/SNSR (JL4), TCM IGN and TRANS Fuses
16	HORN Fuse		20A	Horn Assembly
17	TRANS Fuse		15A	Automatic Transmission
18	A/C CMPRSR Fuse		15A	A/C Compressor Clutch (C60)
19	ECM BATT Fuse		10A	Engine Control Module (ECM) (L20, L96 or LMF)
20	SPARE Fuse		10A	Not Used
21	LT STOP/TRN TRLR Fuse		15A	Trailer Connector
22	SPARE Fuse		10A	Not Used
23	SPARE Fuse		15A	Not Used
24	FUEL PUMP Fuse		30A	Fuel Pump and Sender Assembly (L20, L96 or LU3)
			20A	Fuel Pump (LGH)
25	AUX PWR OUTLET Fuse		20A	Accessory Power Outlet – Center Console 2
26	BCM–3 Fuse		10A	Body Control Module
27	SEO Fuse		10A	Instrument Panel Cluster (IPC) (8S8)
28	AIRBAG Fuse		10A	Inflatable Restraint I/P Module Disable Switch (C99) or Inflatable Restraint I/P Module Indicator (without C99) and Inflatable Restraint Sensing and Diagnostic Module (SDM)
29	STR/WHL/SNSR Fuse		10A	Steering Wheel Speed/Position Sensor (JL4)
30	ECM IGN/GLOW PLUG MDL IGN Fuse		15A	Engine Control Module (ECM) (L20, L96, LMF or LU3) or Glow Plug Control Module (GPCM) (LGH)
31	TCM IGN Fuse		15A	Transmission Control Module (TCM)
32	TCM BATT Fuse		10A	Control Solenoid Valve Assembly (MYD) or Transmission Control Module (TCM) (M30)
33	SPARE Fuse		15A	Not Used
34	SPARE Fuse		15A	Not Used
35	FOH MDL Fuse		15A	Coolant Heater (LGH with K08)
36	FCSM BATT Fuse		20A	Fuel Pump Flow Control Module (LMF)
37	SPARE Relay		—	Not Used
38	KR23A Fuel Pump Relay		—	FUEL PUMP Fuse (except LMF)
39	KR72D Ignition 3 Relay		—	STRTR SOL Fuse
40	KR29 A/C Compressor Clutch		—	A/C CMPRSR Fuse

	Compressor Clutch Relay			
41	SPARE Fuse		20A	Not Used
42	TRLR WRG Fuse		30A	Trailer Connector (UY7)
43	FAN HI Fuse		40A	Not Used
44	STRTR SOL Fuse		40A	Starter Motor
45	ECM PWR/TRN Fuse		30A	Engine Control Module (ECM) (LGH)
46	SPARE Fuse		30A	Not Used
47	FAN LO Fuse		40A	Not Used
48	SPARE		—	Not Used
49	KR75 Engine Controls Ignition Relay		—	ECM PWR/TRN, EVEN IGN/INJ (L20, L96 or LMF), FAN CLTCH (EV) (LGH), FUEL HTR (LGH), MAF/CNSTR VENT, O2 SNSR 1 (PRE)/CLS (L20, L96 or LMF), O2 SNSR 2 (POST) (L20, L96 or LMF), ODD IGN/INJ (L20, L96 or LMF) and V6 FUEL INJ (LU3) Fuses
50	SPAREy		—	Not Used
51	LT HI BEAM Fuse		10A	Headlamp - Left High Beam (Composite) or Headlamp - Left (Sealed)
52	RT HI BEAM Fuse		10A	Headlamp - Right High Beam (Composite) or Headlamp - Right (Sealed)
53	LT LO BEAM Fuse		10A	Headlamp - Left Low Beam (Composite) or Headlamp - Left (Sealed)
54	RT LO BEAM Fuse		10A	Headlamp - Right Low Beam (Composite) or Headlamp - Right (Sealed)
55	WPR Fuse		25A	WPR PCB Relay
56	CNSTR VENT SOL Fuse		10A	Evaporative Emission (EVAP) Canister Vent Solenoid Valve (L20, L96, LMF or LU3)
57	SPARE		—	Not Used
58	BCM–2 Fuse		10A	Body Control Module
59	BCM–1 Fuse		10A	Body Control Module
60	SPARE		—	Not Used
61	SPARE Fuse		15A	Not Used
62	O2 SNSR 2 (POST)/EV FAN Fuse		10A	HO2S Bank 1 Sensor 2 (L20, L96, LMF or LU3) and HO2S Bank 2 Sensor 2 (L20, L96, LMF or LU3)
63	FAN CLTCH (EV) Fuse		10A	FAN CLTCH (EV) Relay (LGH)
64	MAF/CNSTR VENT Fuse		15A	Evaporative Emission (EVAP) Canister Purge Solenoid Valve (L20, L96, LMF or LU3) and Mass Air Flow (MAF)/Intake Air Temperature (IAT) Sensor
65	ODD IGN/INJ Fuse		20A	Ignition Control Module (LU3), Odd Fuel Injectors (L20, L96 or

65	ODD IGN/INJ Fuse		20A	Ignition Control Module (LU3), Odd Fuel Injectors (L20, L96 or LMF) and Odd Ignition Coils (L20, L96 or LMF)
66	DRL2 (LOLVL−V22) Fuse		10A	Headlamp - Left (Sealed) and LT LO BEAM Fuse
67	DRL1 (UPLVL+V22) Fuse		15A	Headlamp - Left Low Beam (Composite) and LT LO BEAM Fuse
68	AUX STOP LAMP(S) Fuse		15A	X405 (Cutaway)
69	SPARE Fuse		10A	Not Used
70	—		—	Not Used
71	FUEL HTR Fuse		15A	Fuel Heater (LGH)
72	BCM–6 Fuse		10A	Body Control Module
73	LTR/DLC Fuse		20A	Accessory Power Outlet – Center Console 1 (without DT4) or Cigar Lighter (DT4) and Data Link Connector (DLC)
74	FRT BLWR Fuse		40A	Blower Motor Resistor
75	V6 FUEL INJ Fuse		15A	Fuel Injectors (LU3)
76	SPARE Fuse		10A	Not Used
77	O2 SNSR 1 (PRE)/CLS Fuse		10A	HO2S Bank 1 Sensor 1 (L20, L96, LMF or LU3) and HO2S Bank 2 Sensor 1 (L20, L96, LMF or LU3)
78	ECM PWR/TRN Fuse		10A	Engine Control Module (ECM)
79	EVEN IGN/INJ Fuse		20A	Even Fuel Injector (L20, L96 or LMF) and Even Ignition Coils (L20, L96 or LMF)
K3	KR12C Windshield Wiper Speed Control Relay		—	Windshield Wiper Motor
K5	KR3 Horn Relay		—	HORN and WASH Fuses
K6	KR49 Headlamp Low Beam Relay		—	LT LO BEAM and RT LO BEAM Fuses
K7	KR48 Headlamp High Beam Relay		—	LT HI BEAM and RT HI BEAM Fuses
K9	TRLR LT STOP/TRN PCB Relay		—	LT STOP/TRN TRLR Fuse (UY7)
K11	KR59 Stop Lamp Relay		—	AUX STOP LAMP(S) Fuse
K13	WPR PCB Relay		—	Windshield Wiper Motor and WPR HI PCB Relay
K18	TRLR RT STOP/TRN PCB Relay		—	RT STOP/TRN TRLR Fuse (UY7)
K19	KR42 Daytime Running Lamps Relay		—	DRL1 (UPLVL+V22) and DRL2 (LOLVL-V22) Fuses

X50A Fuse Block - Underhood Bottom View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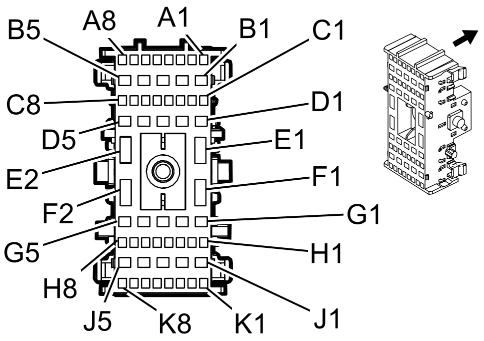
X50A Fuse Block - Underhood X1



Connector Part Information

Harness Type: Engine

OEM Connector: 15477823

Service Connector: 13574911

Description: 56-Way F GT 150 280 Metri-Pack Series, (L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575735	J-35616-2A (GY)	J-38125-553	12191812	19	Pins: A1 (Gas), A2, C2, C6, C8, H1–H2, K2, K8 – E	C
II	13575753	J-35616-4A (PU)	J-38125-553	15304711	8	Pins: B4, D2, G1–G3, G4 (Gas), J1–J3 – 2	A
III	13575718	J-35616-44 (YE)	J-38125-558	12110127	19	F	G

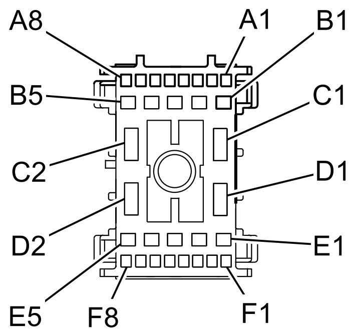
X50A Fuse Block - Underhood X1

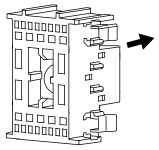
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.5 1	RD/WH RD/WH	440 440	Battery Positive Voltage Battery Positive Voltage	I	LU3, L20, LMF or L96 LMM or LGH
A2	0.35	RD/WH	1840	Battery Positive Voltage	I	-
A3–A8	-	-	-	Not Occupied	-	-
B1	-	-	-	Not Occupied	-	-
B2	0.5	D-GN	59	A/C Compressor Clutch Supply Voltage	II II	C60
B3	-	-	-	Not Occupied	-	-
B4	0.8	D-GN	29	Horn Control	II	-

B4	0.5	D-GN	29	Horn Control	II	
B5	0.5 0.5	PK PK	439 439	Ignition Voltage Ignition Voltage	II	LGH
C1	-	-	-	Not Occupied	-	-
C2	0.35 0.5	D-GN/WH D-GN/WH	459 459	A/C Compressor Clutch Relay Control A/C Compressor Clutch Relay Control	I I	Gas with C60 Diesel with C60
C3–C5	-	-	-	Not Occupied	-	-
C6	0.35 0.5	YE/BK YE/BK	625 625	Starter Enable Relay Control Starter Enable Relay Control	I	LU3, L20, LMF or L96 LGH
C7	1	BK	1250	Ground	I	-
C8	0.35 0.5	D-GN/WH D-GN/WH	465 465	Fuel Pump Relay Control – Primary Fuel Pump Relay Control – Primary	I	L20, LMF or L96 LGH
D1	-	-	-	Not Occupied	-	-
D2	0.8	PK	3039	Ignition Voltage	II	-
D3	0.5	PK	2139	Ignition Voltage	II	-
D4–D5	-	-	-	Not Occupied	-	-
E1	5	PU	6	Starter Solenoid Crank Voltage	III	-
E2	-	-	-	Not Occupied	-	-
F1	5	PK	1439	Ignition Voltage	III	LGH
F2	5	RD/BK	542	Battery Positive Voltage	III	-
G1	1 0.8	PK PK	1039 1039	Ignition Voltage Ignition Voltage	II	L20, LMF or L96 LU3
G2	0.8 0.8	PK PK	1039 1039	Ignition Voltage Ignition Voltage	II	L20, LMF or L96 L20, LMF or L96
G3	0.8 0.8	PK PK	1039 1039	Ignition Voltage Ignition Voltage	II	L20, LMF or L96 L20, LMF or L96
G4	0.5	PK	1939	Ignition Voltage	II	-
G5	0.5	PK	1939	Ignition Voltage	II	LU3, L20, LMF or L96
H1	-	-	-	Not Occupied	-	-
H2	0.5	PK	1339	Ignition Voltage	I	-
H3–H8	-	-	-	Not Occupied	-	-
J1	1	PK	1239	Ignition Voltage	II	L20, LMF or L96
J2	0.8 0.8	PK PK	1239 1239	Ignition Voltage Ignition Voltage	II	L20, LMF or L96 L20, LMF or L96

	0.8	PK	1239	Ignition Voltage		L20, LMF or L96
J3	0.8 0.8	PK PK	1239 1239	Ignition Voltage Ignition Voltage	II	L20, LMF or L96 L20, LMF or L96
J4	0.5	PK	1839	Ignition Voltage	II	LU3
J5	-	-	-	Not Occupied	-	-
K1	0.8 0.8 1	PK PK PK/BK	539 539 5293	Ignition Voltage Ignition Voltage Powertrain Relay Control	I	LU3, L20, LMF or L96 L20, LMF or L96 LGH
K2	-	-	-	Not Occupied	-	-
K3	-	-	-	Not Occupied	-	-
K4	0.8 0.8 0.5	PK PK PK	1539 1539 939	Ignition Voltage Ignition Voltage Powertrain Relay Control	I I	LU3, L20, LMF or L96 L20, LMF or L96 LGH
K5–K7	-	-	-	Not Occupied	-	-
K8	0.5	YE	5991	Powertrain Relay Control	I I	-

X50A Fuse Block - Underhood X2





Connector Part Information

Harness Type: Chassis

OEM Connector: 13567518

Service Connector: 19180280

Description: 30-Way F GT 150/280 Metri-Pack 800 Series (BK)

Terminal Part Information

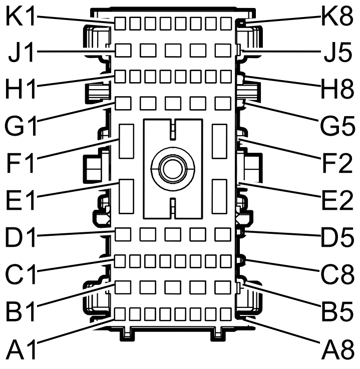
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: A8, F2 – 13575790	J-35616-2A (GY)	J-38125-553	15496302	5	Pins: A2-A4, A7, F1, F3 – 2	A
II	Not Available	J-35616-4A (PU)	J-38125-553	Pins: B1 (Diesel), B2, B5, E2, E4 – 13525447	4	Pins: B1 (Diesel), B2, B5, E2, E4 – 2	A
III	13575718	J-35616-44 (YE)	J-38125-558	12110127	19	F	G

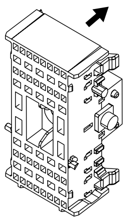
X50A Fuse Block - Underhood X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	-	-	-	Not Occupied	-	-
A2	1	YE	618	Left Rear Turn Signal Lamp Control	I I	Cutaway
A3	0.8	D-BU/WH	149	Courtesy Lamp Control	I I	Cutaway
A4	1	D-GN	619	Right Rear Turn Signal Lamp Control	I I	Cutaway
A5–A6	-	-	-	Not Occupied	-	-
A7	1	BN	2109	Trailer Park Lamps Control	I I	UY7
A8	0.5	PK	2739	Ignition Voltage	I I	LMF

A8	0.5	PK	2739	Ignition Voltage	I I	LMF
B1	0.8 2 3	GY GY GY	120 120 120	Fuel Pump Control Fuel Pump Control Fuel Pump Control	II II	Diesel LU3 L20 or L96
B2	0.8	PK	2239	Ignition Voltage	II II	Diesel
B3	-	-	-	Not Occupied	-	-
B4	2	RD/WH	1740	Battery Positive Voltage	II II	Diesel with K08
B5	1	D-GN	1619	Trailer Right Rear Turn/Stop Lamp Control	II II	UY7
C1	-	-	-	Not Occupied	-	-
C2	3	RD/WH	1640	Battery Positive Voltage	III	-
D1	3	RD/BK	742	Battery Positive Voltage	III	UY7
D2	5	RD/BK	442	Battery Positive Voltage	III	-
E1	-	-	-	Not Occupied	-	-
E2	1	L-BU	1320	CHMSL Control/Stop Lamp Control	II	Cutaway
E3	3	D-BU	47	Trailer Auxiliary Control	II	UY7
E4	1	YE	1618	Trailer Left Rear Turn/Stop Lamp Control	II	UY7
E5	2	RD/WH	1940	Battery Positive Voltage	II	LMF
F1	1	L-GN	1624	Trailer Backup Lamps Control	I	Cutaway, 8S3 or UY7
F2	0.5	RD/WH	40	Battery Positive Voltage	I	LU3, L20, LMF or L96
F3	1	BN	2109	Trailer Park Lamps Control	I	Cutaway
F4–F8	-	-	-	Not Occupied	-	-

X50A Fuse Block - Underhood X3





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15477822

Service Connector: 19115189

Description: 56-Way F GT 150 280 Metri-Pack 800 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575735	J-35616-2A (GY)	J-38125-553	12191812	19	Pins: A3–A4, A7, C5, C6–C8, H3, K3, K7 – C	A
II	13575753	J-35616-4A (PU)	J-38125-553	15304711	8	Pins: B2-B3, D1-D2, G2-G3 – E	A
III	13575754	J-35616-4A (PU)	J-38125-553	15304713	19	Pins: B1, D4 – F	D

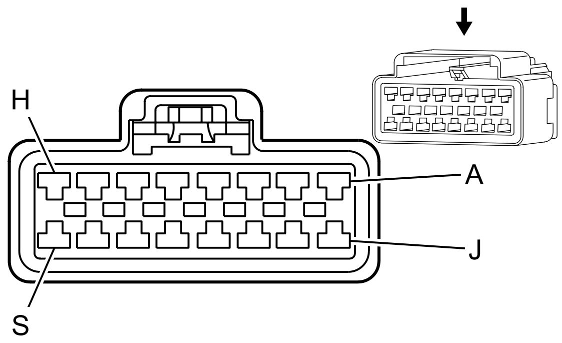
X50A Fuse Block - Underhood X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.35	PK	1639	Ignition Voltage	I	-
A2	0.35	RD/WH	2840	Battery Positive Voltage	I	8S8
A3	0.8	RD/WH	2240	Battery Positive Voltage	I	-
A4	0.8	RD/WH	3040	Battery Positive Voltage	I	-
A5	0.5	RD/WH	2540	Battery Positive Voltage	I	-
A6	-	-	-	Not Occupied	-	-
A7	0.8	RD/WH	2740	Battery Positive Voltage	I I	-
A8	-	-	-	Not Occupied	-	-
B1	3	RD/WH	3940	Battery Positive Voltage	II	UY7

B1	3	RD/WH	3940	Battery Positive Voltage	II III	UY7
B2	0.35	PK	1139	Ignition Voltage	II	-
B3	0.35	PK	1139	Ignition Voltage	II	-
B4	0.8	RD/WH	1040	Battery Positive Voltage	II	-
B5	1	BN	2109	Trailer Park Lamps Control	II	UY7
C1	0.35	PK	239	Ignition Voltage	I I	-
C2	0.5	PK	2239	Ignition Voltage	I I	JL4
C3	-	-	-	Not Occupied	-	-
C4	0.35	OG	5186	Left Trailer Turn Signal Lamp	I I	UY7
C5	1	BN	2109	Trailer Park Lamps Control	I I	Cutaway
C6	1	D-GN	619	Right Rear Turn Signal Lamp Control	I I	Cutaway
C7	0.8	D-BU/WH	149	Courtesy Lamp Control	I I	Cutaway
C8	1	YE	618	Left Rear Turn Signal Lamp Control	I I	Cutaway
D1	0.5	OG	228	Windshield Washer Pump Control	II	-
D2	0.35	YE	5199	Run/Crank Relay Coil Control	II	-
D3	1	L-GN	1624	Trailer Backup Lamps Control	II	Cutaway, UF7 or 8S8
D4	3	D-BU	47	Trailer Auxiliary Control	II III	UY7
D5	-	-	-	Not Occupied	-	-
E1–E2	-	-	-	Not Occupied	-	-
F1–F2	-	-	-	Not Occupied	-	-
G1	0.8	RD/WH	640	Battery Positive Voltage	II III	-
G2	0.35	OG	2268	Windshield Washer Relay Control	II III	-
G3	0.35	YE	5187	Right Trailer Turn Signal Lamp	II III	UY7

G4	2	PU	92	Windshield Wiper Motor High Speed	II III	-
G5	2	D-GN	95	Windshield Washer Switch Signal	II III	-
H1	-	-	-	Not Occupied	-	-
H2	0.5 1	RD/WH RD/WH	3840 3840	Battery Positive Voltage Battery Positive Voltage	I	except LU3 or LMF LU3 or LMF
H3	0.35 0.35	TN TN	28 28	Horn Relay Control Horn Relay Control	I	-
H4	0.35	PK/WH	1970	Headlamp Low Beam Relay Control	I	-
H5	0.35	PU	544	Headlamp Low Beam Control	I	-
H6	0.35	GY	91	Windshield Wiper Switch Signal 2	I	-
H7	0.5	WH	5065	Stop Lamps Control	I	-
H8	0.35	TN	860	Front Windshield Wiper Switch High Signal	I	-
J1	0.8	RD/WH	640	Battery Positive Voltage	II	-
J2	0.8	RD/WH	2940	Battery Positive Voltage	II	-
J3	0.8	BN	2309	Front Park Lamps Control	II	-
J4	0.8	D-BU/WH	1315	Right Front Turn Signal Lamp Control	II	-
J5	-	-	-	Not Occupied	-	-
K1–K2	-	-	-	Not Occupied	-	-
K3	0.8	RD/WH	2140	Battery Positive Voltage	I I	-
K4–K6	-	-	-	Not Occupied	-	-
K7	0.8	L-BU/WH	1314	Left Front Turn Signal Lamp Control	I	-
K8	0.35	TN/WH	1969	Headlamp High Beam Relay Control	I	-

X50A Fuse Block - Underhood X4



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 15326952

Service Connector: 15306426

Description: 16-Way F GT 280 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575753	J-35616-4A (PU)	J-38125-553	15304711	8	Pins: B–C, F, K–L, N, P – E	A

X50A Fuse Block - Underhood X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	-	-	-	Not Occupied	-	-
B	0.5	BN	2309	Front Park Lamps Control	I	-
C	0.5	BN	2309	Front Park Lamps Control	I	-
D	0.8	D-BU/WH	1315	Right Front Turn Signal Lamp Control	I	-
E	0.8	L-BU/WH	1314	Left Front Turn Signal Lamp Control	I	-
F	0.5	YE	712	Left Headlamp Low Beam Control	I	V22
	0.5	YE	712	Left Headlamp Low Beam Control		V22
	0.35	YE	712	Left Headlamp Low Beam Control		except V22
	0.35	YE	712	Left Headlamp Low Beam Control		except V22
G–J	-	-	-	Not Occupied	-	-
K	0.5	YE	712	Left Headlamp Low Beam Control	I	V22 without T79
L	0.35	YE	712	Left Headlamp Low Beam Control	I	except V22 without T79
M	0.8	L-GN/BK	311	Right Headlamp High Beam Control	I	-
N	0.5	D-GN/WH	711	Left Headlamp High Beam Control	I	-

N	0.5	D-GN/WH	711	Left Headlamp High Beam Control	I	-
P	0.35 0.5	TN/WH TN/WH	312 312	Right Headlamp Low Beam Control Right Headlamp Low Beam Control	I	except V22 V22
R–S	-	-	-	Not Occupied	-	-

X50A Fuse Block - Underhood X5

Connector Part Information

Harness Type: Battery Positive (Gas)

Harness Type: Auxiliary Battery Positive (Diesel)

OEM Connector: 15441775

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

X50A Fuse Block - Underhood X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
S	19	RD	1	Battery Positive Voltage	I	-

X50A Fuse Block - Underhood X6

Connector Part Information

Harness Type: Instrument Panel

Harness Type: LPG (KO7 with UFP)

Harness Type: LPG Front EVAP (KO7 with UFM)

OEM Connector: Not Available

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

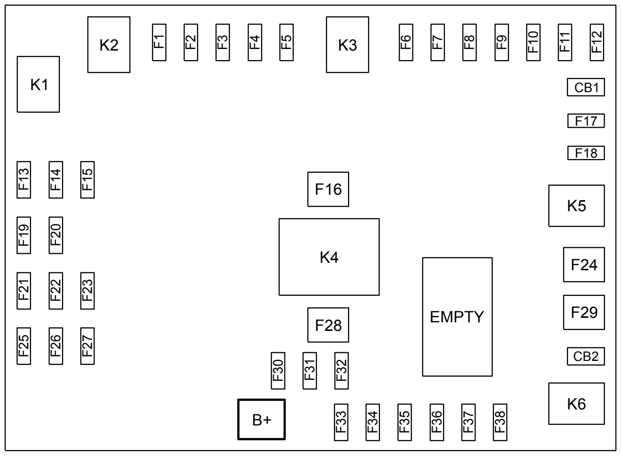
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

X50A Fuse Block - Underhood X6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
S	19	RD/BK	842	Battery Positive Voltage	I	-
S	3	OG	-	Battery Positive Voltage	I	KO7 with UFP
S	0.5	RD	-	Battery Positive Voltage	I	KO7 with UFM

X52A Fuse Block - Passenger Compartment Label


K2
F1
F2
F3
F4
F5
K3
F6
F7
F8
F9
F10
F11
F12
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CB1
F17
F18
F13
F14
F15
F16
K5
F19
F20
K4
F24
EMPTY
F29
F21
F22
F23
F28
F25
F26
F27
CB2
F30
F31
F32
K6
B+
F33
F34
F35
F36
F37
F38

MINIFUSES

F1	15A	EMPTY
F2	2A	STR/WHL/SNSR
F3	15A	AUX PRK LAMP(S) (CUTAWAY)
F4	10A	FTR PRK LAMP(S)
F5	15A	TRLR PRK LAMP(S)
F6	10A	UPFTR PRK LAMP(S)
F7	10A	RT REAR PRK LAMP
F8	10A	LT REAR PARK LAMP
F9	5A	OSRVM SW
F10	10A	AIRBAG/AOS
F11	10A	ONSTAR
F12	15A	EMPTY
F13	10A	HVAC2
F14	20A	HVAC1
F15	15A	EMPTY
F17	20A	OSRVM HTR
F18	30A	REAR DEFOG
F19	10A	CMPS
F20	15A	RDO/CHIME
F21	10A	RFA/TPM
F22	2A	IGN SW (DLIS)/PK3
F23	10A	I/P CLUSTER
F25	10A	HVAC CNTRL
F26	10A	AUX/TRLR BCK/UP
F27	10A	TAIL LAMP(S) BCK/UP
F30	15A	UPFTR CTSY LAMP(S)
F31	15A	FRT DR LCK
F32	15A	REAR DR LCK
F33	15A	CARGO DR UNLCK
F34	15A	FRT PASS DR UNLCK
F35	15A	REAR PASS DR UNLCK
F36	15A	DVR DR UNLCK
F37	15A	EMPTY
F38	15A	EMPTY

J-CASE FUSES

F16	50A		UPFITTER AUX1
F24	30A	CART	EMPTY
F28	50A	CART	UPFITTER AUX2
F28	30A		READING LAMP(S)
F29	30A		REAR BLOWER

CIRCUIT BOARD RELAYS (NOT SHOWN)

K7	BCK/UP
K8	UPFTR CTSY LAMP(S)
K9A	FTR REAR PASS DR UNLCK
K9B	DRVR DR UNLCK
K10A	FTR REAR DR LCK
K10B	CARGO DR UNLCK

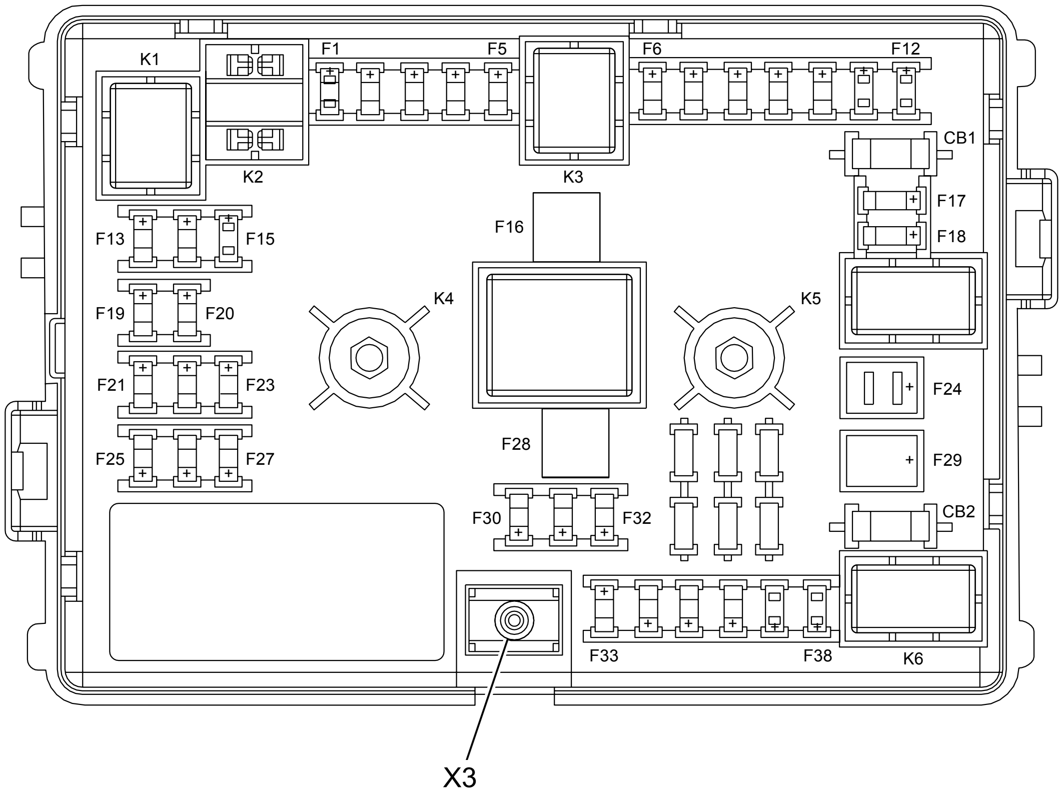
CIRCUIT BREAKERS

CB1	30A	PWR SEATS
CB2	25A	PWR WINDOW(S)

PLUG IN RELAYS

K1	(HC MICRO) RUN
K2	(HC MICRO) EMPTY
K3	PRK LAMP(S)
K4	(HC MINI) UPFTR AUX2
K5	(HC MICRO) REAR DEFOG
K6	(HC MICRO) RAP

X52A Fuse Block - Passenger Compartment Top View



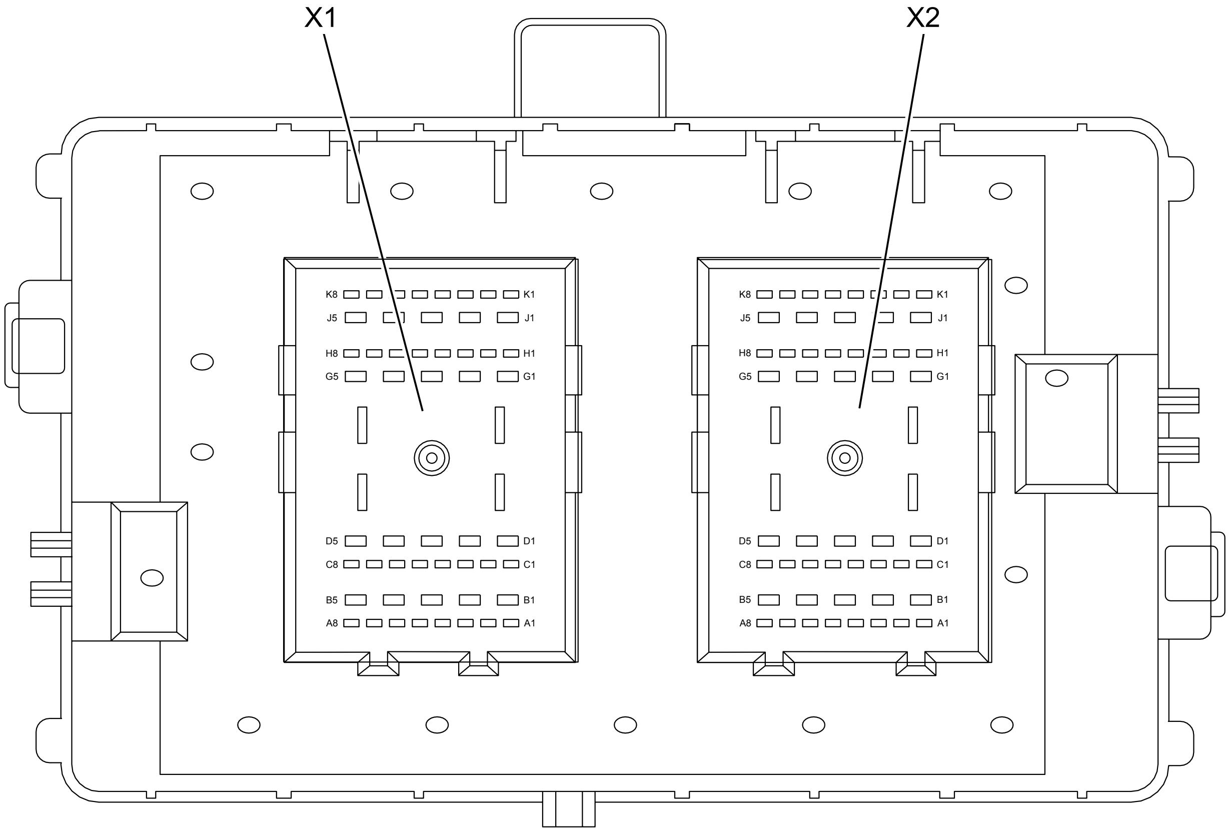
Fuse Block – Body Usage

No.	Device Label Name	Device Assigned Name	Rating	Description
Fuses				
F1	EMPTY		—	Not Used
F2	STR/WHL/SNSR Fuse		2A	Inflatable Restraint Steering Wheel Module Coil (K34 or W1Y)
F3	AUX PRK LAMP(S) (CUTAWAY) Fuse		15A	X405 (Cutaway)
F4	FRT PRK LAMP(S) Fuse		10A	Inflatable Restraint I/P Module Disable Switch (C99), Marker Lamp – Left Front, Marker Lamp – Right Front, Park/Turn Signal Lamp – Left and Park/Turn Signal Lamp – Right
F5	TRLR PRK LAMP(S) Fuse		15A	Trailer Connector (UY7)
F6	UPFTR PRK LAMP(S) Fuse		10A	X320 (YF2 or YF7)
F7	RT REAR PRK LAMP Fuse		10A	Tail/Stop and Turn Signal Lamp – Right (Cargo or Passenger)
F8	LT REAR PARK LAMP Fuse		10A	License Lamp (Cargo or Passenger) and Tail/Stop and Turn Signal Lamp – Left (Cargo or Passenger)
F9	OSRVM SW Fuse		5A	Outside Rearview Mirror Switch (DE5 or DE7)
F10	AIRBAG/AOS Fuse		10A	Inflatable Restraint Front Passenger Presence System (PPS) Sensor (Light Duty without YF7), Inflatable Restraint Sensing and

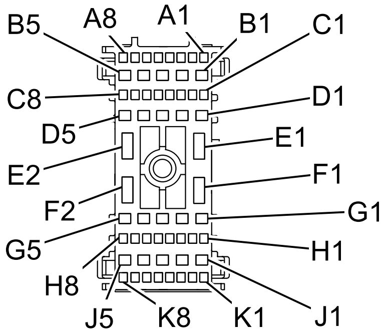
F10	AIRBAG/AOS Fuse		10A	Inflatable Restraint Front Passenger Presence System (PPS) Sensor (Light Duty without YF7), Inflatable Restraint Sensing and Diagnostic Module(SDM) and Inflatable Restraint Vehicle Rollover Sensor (ASF)
F11	ONSTAR Fuse		10A	Vehicle Communication Interface Module (VCIM) (UE1)
F12	EMPTY		—	Not Used
F13	HVAC2 Fuse		10A	Air Temperature Actuator, Air Temperature Actuator – Auxiliary (C69), Blower Motor High Speed Relay – Auxiliary (C36 without C69), Blower Motor Low Speed Relay – Auxiliary (C36 without C69), Blower Motor Medium Speed Relay – Auxiliary (C36 without C69), HVAC Control Assembly (C49, DE5 or DE7), HVAC Control Assembly – Rear Auxiliary (C69 with Rear Auxiliary Controls), HVAC Control Module – Auxiliary and Mode Actuator – Auxiliary (C69)
F14	HVAC1 Fuse		20A	HVAC Control Assembly and Vacuum Pump (LGH)
F15	EMPTY		—	Not Used
F16	UPFITTER AUX1 Fuse		50A	Blunt Cut (YF1), X222 (YF2 or YF7) and X321 (YF2 or YF7)
F17	OSRVM HTR Fuse		20A	Outside Rearview Mirror – Driver (DE5 or DE7) and Outside Rearview Mirror – Passenger (DE5 or DE7)
F18	REAR DEFOG Fuse		30A	Rear Window Defogger Grid – Left (C49) and Rear Window Defogger Grid – Right (C49)
F19	CMPS Fuse		10A	Electronic Compass Module (U80)
F20	RDO/CHIME Fuse		15A	Chime Module (UL5), Digital Radio Receiver (U2K) and Radio (except UL5)
F21	RFA/TPM Fuse		10A	Remote Control Door Lock Receiver (RCDLR) (AU0 or UJ6)
F22	IGN SW (DLIS)/PK3 Fuse		2A	Ignition Switch and Theft Deterrent Module (TDM)
F23	I/P CLUSTER Fuse		10A	Instrument Panel Cluster (IPC) (except 8S8)
F24	EMPTY		—	Not Used
F25	HVAC CNTRL Fuse		10A	HVAC Control Assembly (C49, DE5 or DE7)
F26	AUX/TRLR BCK/UP Fuse		10A	Backup Alarm (8S3), Trailer Connector (UY7) and X405 (Cutaway)
F27	TAIL LAMP(S) BCK/UP Fuse		10A	Backup Lamp – Left (Cargo or Passenger) and Backup Lamp – Right (Cargo or Passenger)
F28	UPFITTER AUX2 Fuse		50A	Blunt Cut (YF1), X321 (YF2 or YF7) and X222 (YF2 or YF7)
	READING LAMP(S) Fuse		30A	Blunt Cut – Provisional Wiring (5B3)
F29	REAR BLWR Fuse		30A	Blower Motor High Speed Relay – Auxiliary (C36 without C69), Blower Motor Low Speed Relay – Auxiliary (C36 without C69) and Blower Motor Medium Speed Relay – Auxiliary (C36 without C69)
F30	UPFTR CTSY LAMP(S) Fuse		15A	Body Control Module (except YF7), Dome Lamp (Cargo), Dome/Reading Lamp – Front, Dome/Reading Lamp – Middle (Passenger), Dome/Reading Lamp – Rear (Passenger), X320 (YF7) and X405 (Cutaway)

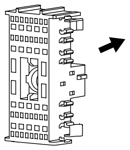
				(YF7) and X1 (Cutaway)
F31	FRT DR LCK Fuse		15A	Door Latch – Driver (AU3) and Door Latch – Passenger (AU3)
F32	REAR DR LCK Fuse		15A	Door Latch – Cargo (Cargo or Passenger), Door Contact Plate – Left Side (E26) and Door Contact Plate – Right Side (E24 or YA2)
F33	CARGO DR UNLCK Fuse		15A	Door Latch – Cargo (Cargo or Passenger with AU3)
F34	FRT PASS DR UNLCK Fuse		15A	Door Latch – Passenger (AU3)
F35	REAR PASS DR UNLCK Fuse		15A	Door Contact Plate – Left (E26 with AU3), Door Contact Plate – Right (Cargo or Passenger with AU3) and Fuse Block – Body
F36	DVR DR UNLCK Fuse		15A	Door Latch – Driver (AU3)
F37	EMPTY		—	Not Used
F38	EMPTY		—	Not Used
CB1	PWR SEATS Circuit Breaker		30A	Seat Adjuster Switch – Driver (AG1) and Seat Adjuster Switch – Passenger (AG2)
CB2	PWR WINDOW(S) Circuit Breaker		25A	Window Switch – Driver (A31) and Window Switch – Passenger (A31)
K1	RUN Relay		—	CMPS, HVAC1 and HVAC2 Fuses and UPFTR AUX2 Relay
K2	EMPTY		—	Not Used
K3	PRK LAMP(S) Relay		—	AUX PRK LAMP(S) (Cutaway), FRT PRK LAMP(S), LT REAR PARK LAMP, RT REAR PRK LAMP, TRLR PRK LAMP(S) and UPFTR PRK LAMP(S) Fuses
K4	UPFTR AUX2 Relay		—	READING LAMP(S) (5B3) or UPFITTER AUX2 (YF1, YF2 or YF7) Fuses
K5	REAR DEFOG Relay		—	OSRVM HTR and REAR DEFOG Fuses
K6	RAP Relay		—	PWR WINDOW(S) Circuit Breaker (A31)
K7	BCK/UP PCB Relay		—	AUX/TRLR BCK/UP and TAIL LAMP(S) BCK/UP Fuses
K8	UPFTR CTSY LAMP(S) PCB Relay		—	UPFTR CTSY LAMP(S) Fuse
K9A	FTR REAR PASS DR UNLCK PCB Relay		—	FRT PASS DR UNLCK and REAR PASS DR UNLCK Fuses
K9B	DRVR DR UNLCK PCB Relay		—	DVR DR UNLCK Fuse
K10A	FTR REAR DR LCK PCB Relay		—	FRT DR LCK and REAR DR LCK Fuses
K10B	CARGO DR UNLCK PCB Relay		—	CARGO DR UNLCK Fuse

X52A Fuse Block - Passenger Compartment Bottom View


X1
X2
K8
K1
J5
J1
H8
H1
G5
G1
D5
D1
C8
C1
B5
B1
A8
A1
K8
K1
J5
J1
H8
H1
G5
G1
D5
D1
C8
C1
B5
B1
A8
A1

X52A Fuse Block - Passenger Compartment X1





Connector Part Information

Harness: Instrument Panel

OEM: 15477823

Service: 13574911

Description: 56-Way F GT 150 280 Metri-Pack Series (L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12191812	19	Pins: A4–A6, C2, C4–C5, C7, H3–H4, H6–H8, K2–K5, K7–K8 – E	C
II				15304711	8	Pins: B3 – E	A
III				12110127	19	F	G
IV				12065915	5	C	A

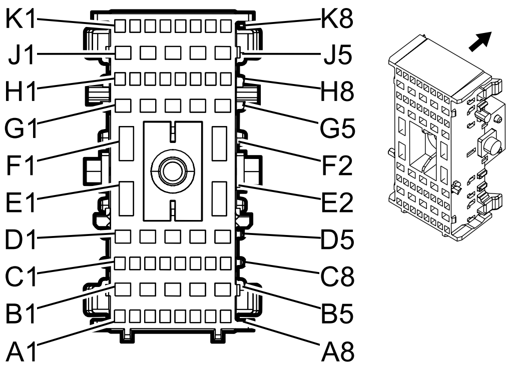
X52A Fuse Block - Passenger Compartment X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1–A3	-	-	-	Not Occupied	-	-
A4	0.35	YE	6817	LED Backlight Dimming Control	I	K34 or W1Y
A5	0.35	D-BU	45	Park Lamp Control	I	-
A6	0.35	BN	6136	Supply Voltage	I	K34 or W1Y
A7–A8	-	-	-	Not Occupied	-	-
B1	0.8	RD/WH	3240	Battery Positive Voltage	II	UE1
B2	1	BN	2109	Trailer Park Lamps Control	II	UY7
B3	0.35	BN	341	Ignition Voltage	II	-
B4	0.5 0.8	BN BN	2309 2309	Front Park Lamps Control Front Park Lamps Control	II	C99

B4	0.5 0.8	BN BN	2309 2309	Front Park Lamps Control Front Park Lamps Control	II	C99
B5	1	BN	2109	Trailer Park Lamps Control	II	Cutaway
C1	1	YE	618	Left Rear Turn Signal Lamp Control	I I	Passenger or Cargo
C2	0.35	BN/WH	230	Instrument Panel Lamps Dimming Control	I I	-
C3	1	D-GN	619	Right Rear Turn Signal Lamp Control	I I	Passenger or Cargo
C4	0.35	WH	193	Rear Defog Relay Control	I I	C49, DE5 or DE7
C5	0.35	BN	341	Ignition Voltage	I I	-
C6	-	-	-	Not Occupied	-	-
C7	0.35	OG	300	Ignition Voltage	I I	-
C8	0.8	BN	141	Ignition Voltage	I I	LGH
D1–D4	-	-	-	Not Occupied	-	-
D5	1	BN	141	Ignition Voltage	II	-
E1	5	RD/BK	1042	Battery Positive Voltage	III	YF7
E2	0.5	BK	350	Ground	IV	-
F1	5	BN	541	Ignition Voltage	III	YF2 or YF7
F2	-	-	-	Not Occupied	-	-
G1–G2	-	-	-	Not Occupied	-	-
G3	0.8	D-BU/WH	1315	Right Front Turn Signal Lamp Control	II	DE5 or DE7
G4	1	RD/WH	340	Battery Positive Voltage	II	-
G5	-	-	-	Not Occupied	-	-
H1	0.8	L-BU/WH	1314	Left Front Turn Signal Lamp Control	I	DE5 or DE7
H2	0.8 0.8	D-BU/WH D-BU/WH	149 149	Courtesy Lamp Control Courtesy Lamp Control	I	Cutaway except YF2 or YF7
H3	0.35	BK/WH	351	Ground	I	-
H4	0.35	YE	43	Ignition Voltage	I	-
H5	0.8	RD/WH	4440	Battery Positive Voltage	I	C49, DE5 or DE7
H6	0.35	RD/WH	2840	Battery Positive Voltage	I	except 8S8

H6	0.35	RD/WH	2840	Battery Positive Voltage	I	except 8S8
H7	0.35	RD/WH	540	Battery Positive Voltage	I	-
H8	0.5	RD/WH	5340	Battery Positive Voltage	I	AU0 or UJ6
J1–J4	-	-	-	Not Occupied	-	-
J5	1	L-GN	1624	Trailer Backup Lamps Control	II	Cutaway, UY7 or 8S3
K1	-	-	-	Not Occupied	-	-
K2	0.5	YE	356	Driver Door Lock Relay Unlock Control	I I	AU3
K3	0.5	L-BU	244	Passenger Door Lock Switch Lock Control	I I	AU3
K4	0.5	L-BU	244	Passenger Door Lock Switch Lock Control	I	AU3 without PRP
	0.35	L-BU	244	Passenger Door Lock Switch Lock Control	I	AU3 with PRP
K5	0.5	YE	356	Driver Door Lock Relay Unlock Control	I	AU3 without PRP
	0.35	L-BU	244	Passenger Door Lock Switch Lock Control	I	AU3 with PRP
K6	-	-	-	Not Occupied	-	-
K7	0.5	GY/BK	690	Courtesy Lamp Control	I I	YF2 or YF7
K8	0.35	D-BU	38	Backup Lamp Relay Control	I I	-

X52A Fuse Block - Passenger Compartment X2



Connector Part Information

Harness: Body

OEM: 15477822

Service: 19115189

Description: 56-Way F GT 150 280 Metri-Pack 800 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12191812	19	Pins: A1–A6, B4, C3–C5, C8, H2–H3, H5–H7 – E	C
II				15304711	8	Pins: B4 – E	A
III	13327131			15304713	19	F	D
IV				12110127	19	F	G

X52A Fuse Block - Passenger Compartment X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.5	RD/WH	3440	Battery Positive Voltage	I	Light Duty except C99 or YF7
A2	0.5	RD/WH	3440	Battery Positive Voltage	I	ASF
A3	0.5	RD/WH	3440	Battery Positive Voltage	I	-
A4	0.5	BN	2509	Left Rear Park Lamps Control	I	Passenger or Cargo
A5	0.5	BN	2609	Right Rear Park Lamps Control	I	Passenger or Cargo
A6	0.5	RD/WH	4340	Battery Positive Voltage	I	DE5 or DE7
A7–A8	-	-	-	Not Occupied	-	-
B1	3	RD/WH	3540	Battery Positive Voltage	II	AG2

					III	
B2	3	RD/WH	3540	Battery Positive Voltage	II III	AG1
B3	1	RD/WH	3240	Battery Positive Voltage	II III	UE1
B4	0.5	BN	2209	Rear Park Lamps Control	I II III	YF2 or YF7
B5	-	-	-	Not Occupied	-	-
C1	-	-	-	Not Occupied	-	-
C2	1	RD/WH	3240	Battery Positive Voltage	I	UE1
C3	0.35	BN	341	Ignition Voltage	I	C69
C4	0.35	BN	341	Ignition Voltage	I	C69, C36 or ENC
C5	0.35	BN	341	Ignition Voltage	I	C49, DE5, DE7 or C60
C6	1	D-GN	619	Right Rear Turn Signal Lamp Control	I	Passenger or Cargo
C7	1	YE	618	Left Rear Turn Signal Lamp Control	I	Passenger or Cargo
C8	0.35	BN/WH	230	Instrument Panel Lamps Dimming Control	I	-
D1	5	PU	293	Rear Defog Element Control	II III	C49
D2	5	PU	293	Rear Defog Element Control	II III	C49
D3	0.8	OG	2267	Mirror Heating Element Control	II III	DE5 or DE7
D4	0.8	OG	2267	Mirror Heating Element Control	II III	DE5 or DE7
D5	-	-	-	Not Occupied	-	-
E1	-	-	-	Not Occupied	-	-
E2	5	RD/BK	1042	Battery Positive Voltage	IV	YF1, YF2 or YF7
F1	5	RD/WH	1740	Battery Positive Voltage	IV	C69, C36 or ENC
F2	5 3	BN BN	541 541	Ignition Voltage Ignition Voltage	IV	YF1, YF2 or YF7 5B3
G1	3	D-GN	1001	RAP 12-Volt Fuse Control	II III	A31
G2	3	D-GN	1001	RAP 12-Volt Fuse Control	II	A31

G2	3	D-GN	1001	RAP 12-Volt Fuse Control	II III	A31
G3	-	-	-	Not Occupied	-	-
G4	1	GY	295	Door Lock Actuator Lock Control	II III	Passenger or Cargo with AU3
G5	1 1	GY GY	295 295	Door Lock Actuator Lock Control Door Lock Actuator Lock Control	II III	AU3 with E26 AU3 with E26 or YA2
H1	-	-	-	Not Occupied	-	-
H2	0.35	BN	441	Ignition Voltage	I I	-
H3	0.35	BK/WH	351	Ground	I I	-
H4	-	-	-	Not Occupied	-	-
H5	0.5	D-BU/WH	1315	Right Front Turn Signal Lamp Control	I I	DE5 or DE7
H6	0.5	L-BU/WH	1314	Left Front Turn Signal Lamp Control	I I	DE5 or DE7
H7	0.5	D-BU/WH	149	Courtesy Lamp Control	I I	-
H8	0.8 0.8	D-BU/WH D-BU/WH	149 149	Courtesy Lamp Control Courtesy Lamp Control	I I	Passenger Passenger or Cargo except YF2 or YF7
J1	0.8	TN	694	Driver Door Lock Actuator Unlock Control	II	AU3
J2	1	TN	294	Door Lock Actuator Unlock Control	II	Passenger or Cargo with AU3
J3	0.8 0.8	TN TN	294 294	Door Lock Actuator Unlock Control Door Lock Actuator Unlock Control	II	AU3 with E24 or YA2 AU3 with E26
J4	0.8	TN	294	Door Lock Actuator Unlock Control	II	AU3
J5	0.8 0.8	GY GY	295 295	Door Lock Actuator Lock Control Door Lock Actuator Lock Control	II	AU3 AU3
K1–K2	-	-	-	Not Occupied	-	-
K3	1	TN/BK	1095	Right Rear Door Lock Actuator Unlock Control	I I	Passenger or Cargo with AU3
K4–K6	-	-	-	Not Occupied	-	-
K7	1	TN	294	Door Lock Actuator Unlock Control	I	Passenger or Cargo with AU3

						Cargo with AU3
K8	1 1	L-GN L-GN	24 24	Backup Lamp Control Backup Lamp Control	I	Passenger or Cargo Passenger or Cargo

X52A Fuse Block - Passenger Compartment X3

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: Not Available

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

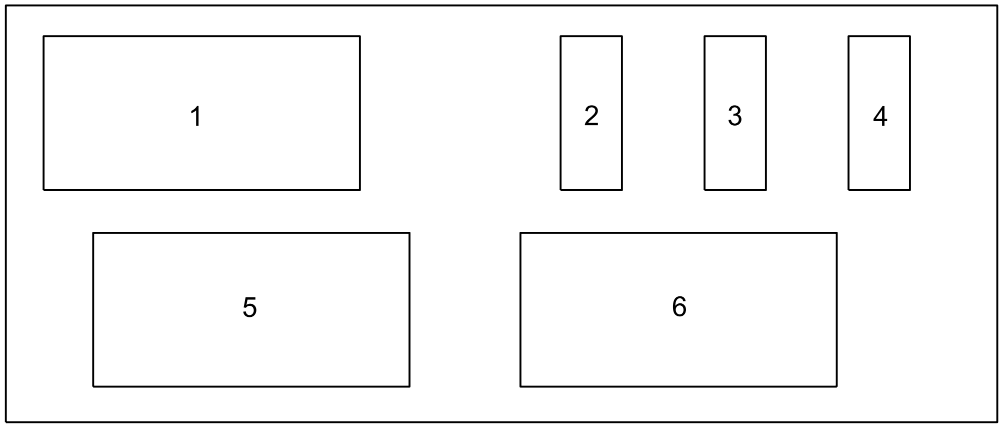
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

X52A Fuse Block - Passenger Compartment X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
S	19	RD	842	Battery Positive Voltage	I	-

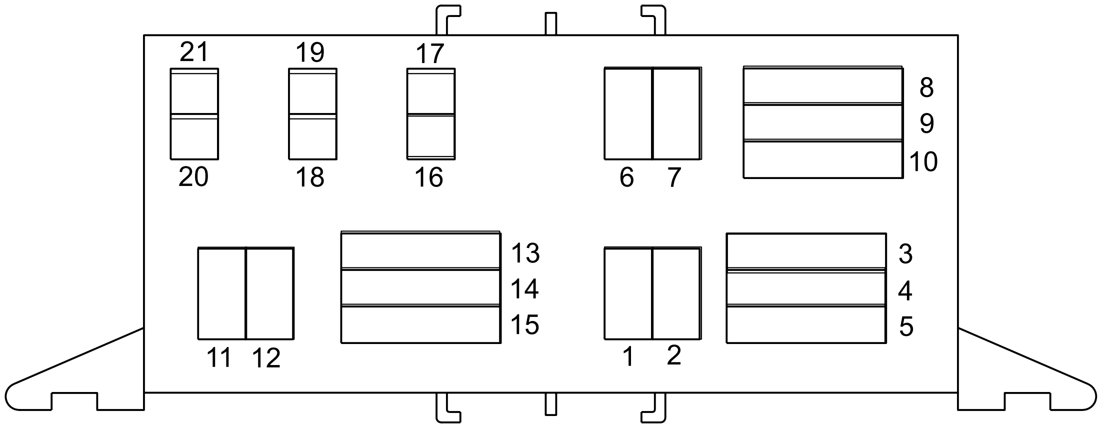
X53A Fuse Block - Rear Body Top View (PRP)



Fuse Block – Rear Usage (PRP)

No.	Device Label Name	Device Assigned Name	Rating	Description
1	Access Panel Relay – Left Side Rear		—	Access Panel Latches – Left Side Rear
2	Dome Fluorescent Work Lamps Fuse		10A	Dome Fluorescent Work Lamps (UF2)
3	Panel Actuator Fuse		15A	Access Panel Relays
4	—		—	Not Used
5	Access Panel Relay – Left Side Front		—	Access Panel Latches – Left Side Front
6	Access Panel Relay – Right Side		—	Access Panel Latches – Right Side

X53A Fuse Block - Rear Body Bottom View (PRP)



Connector Part Information

Harness Type: Professional

OEM Connector: 63995

Service Connector: Service by Harness - See Part Catalog

Description: 21-Way F Fuse Block (BK)

Terminal Part Information

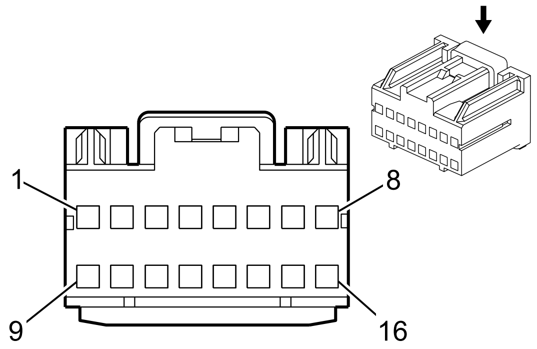
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness - See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X53A Fuse Block - Rear Body Bottom View (PRP)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	OG	OG	740	Battery Positive Voltage	I	-
2	TN	TN	294	Access Panel Left Front Side Lock Actuators Unlock Control	I	-
3	L-BU	L-BU	195	Access Panel Left Side Front Relay Control	I	-
4	-	-	-	Not Occupied	-	-
5	OG	OG	740	Battery Positive Voltage	I	-
6	OG	OG	740	Battery Positive Voltage	I	-
7	PK	PK	1092	Access Panel Left Rear Side Lock Actuators Unlock Control	I	-
8	L-GN	L-GN	1391	Access Panel Left Side Rear Relay Control	I	-
9	-	-	-	Not Occupied	-	-
10	OG	OG	740	Battery Positive Voltage	I	-

10	OG	OG	740	Battery Positive Voltage	I	-
11	OG	OG	740	Battery Positive Voltage	I	-
12	TN/BK	TN/BK	1095	Access Panel Right Side Lock Actuators Unlock Control	I	-
13	L-BU	L-BU	1344	Access Panel Right Side Relay Control	I	-
14	-	-	-	Not Occupied	-	-
15	OG	OG	740	Battery Positive Voltage	I	-
16	RD	RD	1042	Battery Positive Voltage	I	UF2
17	OG	OG	840	Battery Positive Voltage	I	UF2
18	RD	RD	1042	Battery Positive Voltage	I	-
19	OG	OG	740	Battery Positive Voltage	I	-
20–21	-	-	-	Not Occupied	-	-

A10 Inside Rearview Mirror



Connector Part Information

Harness Type: Headliner

OEM Connector: 15441350

Service Connector: 15306351

Description: 16-Way F Micro-Pack 100A Series (BK)

Terminal Part Information

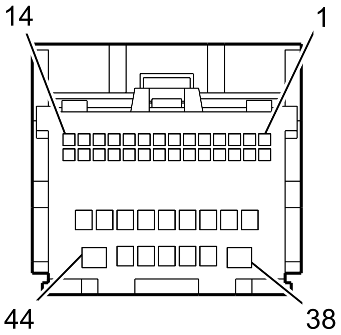
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575548	J-35616-16 (L-GN)	J-38125-559	15445905	23	J	J

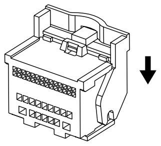
A10 Inside Rearview Mirror

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	-	-	-	Not Occupied	-	-
3	-	-	-	Not Occupied	-	-
4	-	-	-	Not Occupied	-	-
5	-	-	-	Not Occupied	-	-
6	0.5	WH	7641	Camera Rear Vision Signal +	I	-
7	0.5	D-BU	7642	Camera Rear Vision Signal (-)	I	-
8	0.5	BK/WH	351	Signal Ground	I	-
9	0.5	L-GN	24	Backup Lamp Supply Voltage	I	-
10	-	-	-	Not Occupied	-	-
11	-	-	-	Not Occupied	-	-
12	-	-	-	Not Occupied	-	-
13	0.5	PK	239	Run/Crank Ignition 1 Voltage	I	-
14	-	-	-	Not Occupied	-	-

14	-	-	-	Not Occupied	-	-
15	-	-	-	Not Occupied	-	-
16	-	-	-	Not Occupied	-	-

A11 Radio X1 (UYS)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13589609

Service Connector: 88988902

Description: 44-Way F GT 150/280 64 Series (BK)

Terminal Part Information

Pins: 6, 20, 28

Terminated Lead: 13327119

Release Tool: J-38125-215A

Diagnostic Test Probe: J-35616-64B (L-BU)

Terminal/Tray: SAIT-A03T-M064/14

Core/Insulation Crimp: P/P

Pins: 29, 31–34, 39–43

Terminated Lead: 13327109

Release Tool: J-38125-553

Diagnostic Test Probe: J-35616-2A (GY)

Terminal/Tray: 12191812/19

Core/Insulation Crimp: E/C

Pins: 38, 44

Terminated Lead: 13327130

Release Tool: J-38125-553

Diagnostic Test Probe: J-35616-4A (PU)

Terminal/Tray: 15304711/8

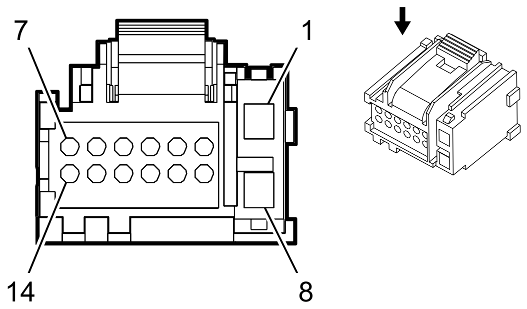
Core/Insulation Crimp: 2/A

A11 Radio X1 (UYS)

Pin	Wire	Circuit	Function
1–5	—	—	Not Used
6	0.35 L-BU/BK	659	Low Reference (UE1)
7	0.35 YE	6817	LED Backlight Dimming Control
8–19	—	—	Not Used
20	0.35 D-BU	658	Cellular Telephone Voice Signal (UE1)
21–27	—	—	Not Used

21–27	—	—	Not Used
28	0.35 D-GN	5060	Low Speed GMLAN Serial Data
29–30	—	—	Not Used
31	0.8 D-GN	1953	Right Front Midrange Speaker (-)
32	0.8 L-BU	1957	Left Front Midrange Speaker (-)
33	0.8 OG	1955	Right Rear Midrange Speaker (-)
34	0.8 WH	1959	Left Rear Midrange Speaker (-)
35–37	—	—	Not Used
38	1 BK	351	Ground
39	0.8 OG	1853	Right Front Midrange Speaker (+)
40	0.8 D-BU	1857	Left Front Midrange Speaker (+)
41	0.8 TN	1855	Right Rear Midrange Speaker (+)
42	0.8 TN	1859	Left Rear Midrange Speaker (+)
43	—	—	Not Used
44	1 RD/WH	340	Battery Positive Voltage

A11 Radio X1 (-UYS)



Connector Part Information

Harness: Instrument Panel

OEM: 13545675

Service: 13545674

Description: 14-Way F GT 150 Micro 64 Modular (BK)

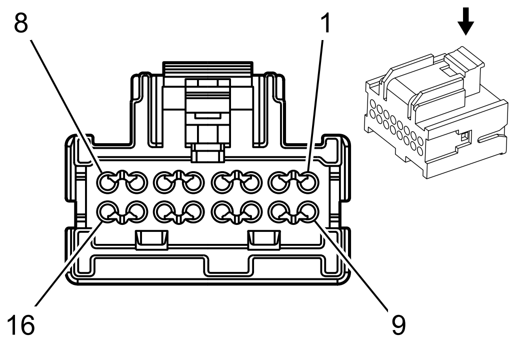
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12191812	19	C	A
II				15359541	4	M	M

A11 Radio X1 (-UYS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	RD/WH	340	Battery Positive Voltage	I	-
2	0.8	D-BU	1857	Left Front Midrange Speaker Output (+)	II	-
3	0.8	OG	1853	Right Front Midrange Speaker Output (+)	II	-
4–6	-	-	-	Not Occupied	-	-
7	0.35	YE	6817	LED Backlight Dimming Control	II	-
8	1	BK/WH	351	Ground	I	-
9	0.8	L-BU	1957	Left Front Midrange Speaker Output (−)	II	-
10	0.8	D-GN	1953	Right Front Midrange Speaker Output (−)	II	-
11–12	-	-	-	Not Occupied	-	-
13	0.35	D-GN	5060	Low Speed GMLAN Serial Data	II	-
14	-	-	-	Not Occupied	-	-

A11 Radio X2 (-UYS)



Connector Part Information

Harness: Instrument Panel

OEM: 13567860

Service: 13504130

Description: 16-Way F Micro-Pack 0.64 Series (PU)

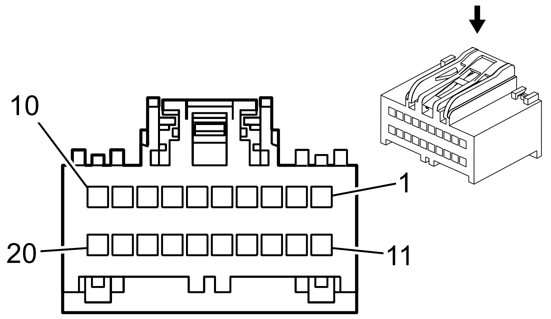
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15359541	4	M	M

A11 Radio X2 (-UYS)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BN/WH	367	Left Audio Signal (+)	I	U2K
2	0.35	D-GN/WH	368	Right Audio Signal (+)	I	U2K
3–4	-	-	-	Not Occupied	-	-
5	0.8	TN	1859	Left Rear Midrange Speaker Output (+)	I	-
6	0.8	TN	1855	Right Rear Midrange Speaker Output (+)	I	-
7	0.8	D-BU	658	Cellular Telephone Voice Signal	I	UE1
8	-	-	-	Not Occupied	-	-
9	0.35	TN/WH	372	Left Audio Signal (-)	I	U2K
10	0.35	GY	388	Right Audio Signal (-)	I	U2K
11–12	-	-	-	Not Occupied	-	-
13	0.8	WH	1959	Left Rear Midrange Speaker Output (−)	I	-
14	0.8	OG	1955	Right Rear Midrange Speaker Output (–)	I	-
15	0.8	L-BU/BK	659	Low Reference	I	UE1
16	-	-	-	Not Occupied	-	-

A11 Radio X4 (UYS)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15491304

Service Connector: 15126710

Description: 20-Way F USCAR 64 Series (GY)

Terminal Part Information

Terminated Lead: Pins 5–7, 15–18 – 13327119

Terminated Lead: Pins 20 – 13575867

Release Tool: J-38125-215A

Diagnostic Test Probe: J-35616-64B (L-BU)

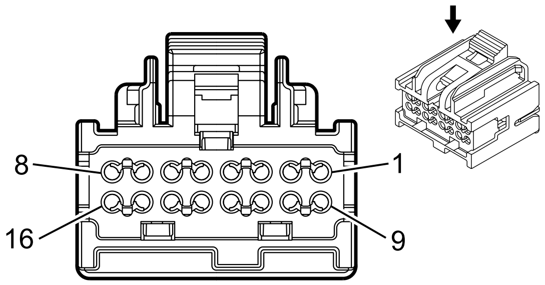
Terminal/Tray: SAIT-A03T-M064/14

Core/Insulation Crimp: P/P

A11 Radio X4 (UYS)

Pin	Wire	Circuit	Function
1–4	—	—	Not Used
5	0.35 WH	7641	Camera Signal (+)
6	0.35 PK	5149	Voice Recognition Audio Signal (UE1)
7–14	—	—	Not Used
15	0.35 L-BU	7642	Camera Signal (−)
16	0.35 PK/BK	5152	Low Reference (UE1)
17–20	0.35 GY	5836	Amplifier Audio Prompt Signal (−) (Y91)
20	0.5 D-GN/WH	817	Vehicle Speed Signal

A12 Digital Radio Receiver Control Module (U2K)



Connector Part Information

Harness: Instrument Panel

OEM: 13568238

Service: 13504130

Description: 16-Way F Micro 64 Series Sealed (BK)

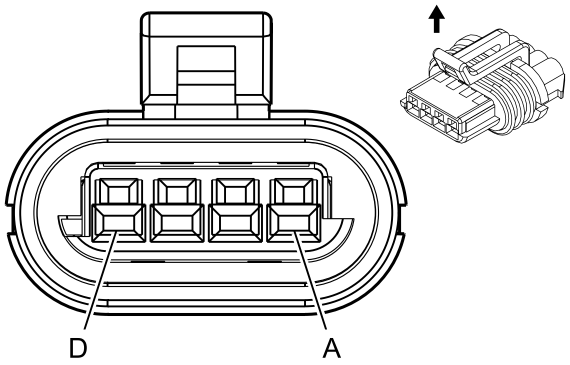
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15359541	4	M	M

A12 Digital Radio Receiver Control Module (U2K)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	TN/WH	372	Left Audio Signal (−)	I	-
2	0.35	BN/WH	367	Left Audio Signal (+)	I	-
3	0.35	D-GN/WH	368	Right Audio Signal (+)	I	-
4	0.35	GY	388	Right Audio Signal (−)	I	-
5	0.5	D-GN	5060	Low Speed GMLAN Serial Data	I	-
6–8	-	-	-	Not Occupied	-	-
9	0.8	BK/WH	351	Ground	I	-
10–15	-	-	-	Not Occupied	-	-
16	0.8	RD/WH	340	Battery Positive Voltage	I	-

A23D Door Latch Assembly - Driver X1



Connector Part Information

Harness Type: Driver Door

OEM Connector: 15354716

Service Connector: 19257375

Description: 4-Way F GT 150 Series, Sealed (BK)

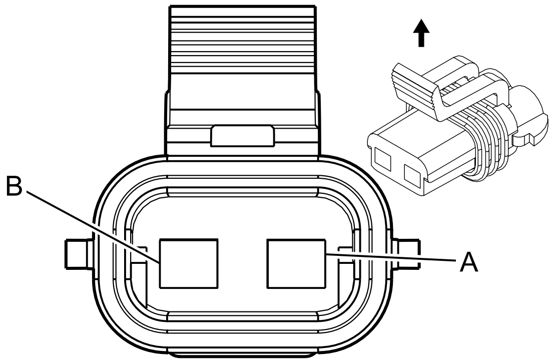
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13576360	J-35616-2A (GY)	J-38125-553	15326267	19	E	4

A23D Door Latch Assembly - Driver X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	TN	126	Left Front Door Open Switch Signal	I	-
B	0.35	GY/BK	745	Left Front Door Ajar Switch Signal	I	-
C	-	-	-	Not Occupied	-	-
D	0.35	BK	450	Ground	I	-

A23D Door Latch Assembly - Driver X2



Connector Part Information

Harness Type: Driver Door

OEM Connector: 15300027

Service Connector: 12101855

Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

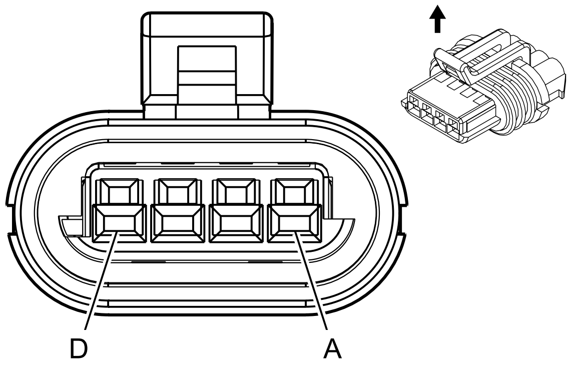
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12077411	2	2	5

A23D Door Latch Assembly - Driver X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	694	Driver Door Lock Actuator Unlock Control	I	-
B	0.8	GY	295	Door Lock Actuator Lock Control	I	-

A23P Door Latch Assembly - Passenger X1



Connector Part Information

Harness Type: Passenger Door

OEM Connector: 15354716

Service Connector: 19257375

Description: 4-Way F GT 150 Series, Sealed (BK)

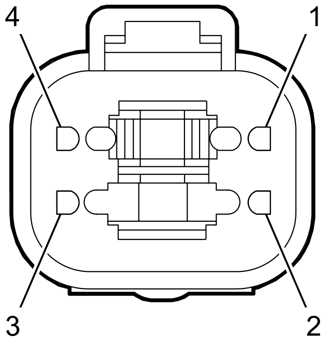
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13576360	J-35616-2A (GY)	J-38125-553	15326267	19	E	4

A23P Door Latch Assembly - Passenger X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK	1850	Ground	I	-
B	-	-	-	Not Occupied	-	-
C	0.35	TN/WH	746	Right Front Door Ajar Switch Signal	I	-
D	0.35	L-GN	1177	Right Front Door Open Switch Signal	I	-

A32A LPG Pump Assembly - Primary (KO7 with UFP)



Connector Part Information

Harness Type: LPG

OEM Connector: DT04 – 4P

Service Connector: Pending

Description: 4-Way M Deutsch DT Series, Sealed (GY)

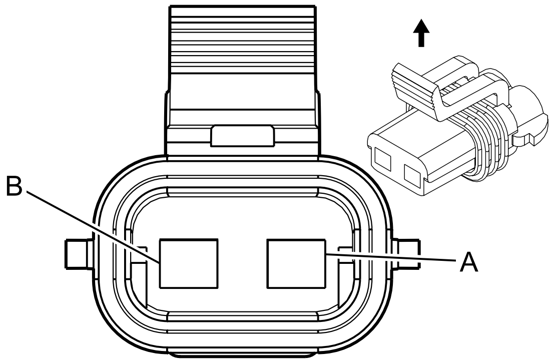
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

A32A LPG Pump Assembly - Primary (KO7 with UFP)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2	RE/WH	—	Fuel Pump – Primary	I	-
2	2	OR	—	Fuel Pump – Scavenge	I	-
3	0.8	YE	—	LPDM Signal	I	-
4	2	BK	—	Ground	I	-

A32B LPG Pump Assembly - Secondary (KO7 with UFP)



Connector Part Information

Harness Type: LPG

OEM Connector: 15300027

Service Connector: 12101855

Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

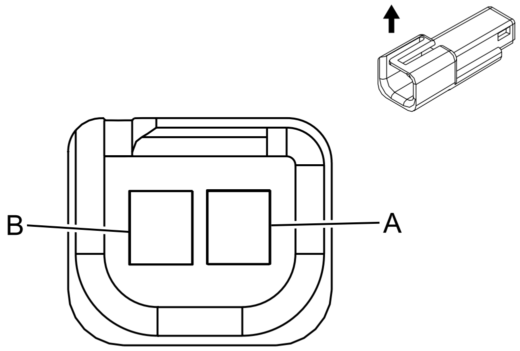
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness– See Part Catalog	J-35616-4A (PU)	J-38125-11A	12077411	2	2	5

A32B LPG Pump Assembly - Secondary (KO7 with UFP)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	RD/WH	—	Secondary LPDM Signal	I	-
B	0.8	BK	—	Ground	I	-

A3L Sunshade - Left (DH6 with YF7)



Connector Part Information

Harness Type: Front Headliner

OEM Connector: 12047663

Service Connector: 12085481

Description: 2-Way M Metri-Pack 150 Series (BK)

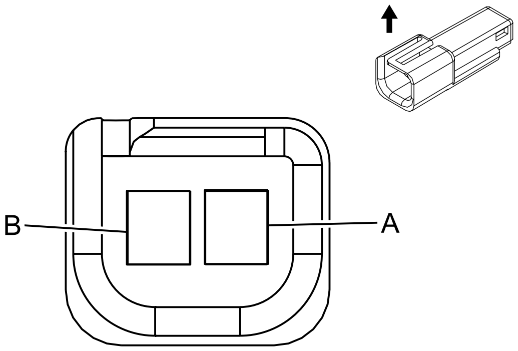
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575462	J-35616-3 (GY)	J-38125-12A	12047581	2	E	C

A3L Sunshade - Left (DH6 with YF7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	OG	1732	Courtesy Lamp Control	I	-
B	0.5	BK	1850	Ground	I	-

A3R Sunshade - Right (DH6)



Connector Part Information

Harness Type: Front Headliner

OEM Connector: 12047663

Service Connector: 12085481

Description: 2-Way M Metri-Pack 150 Series (BK)

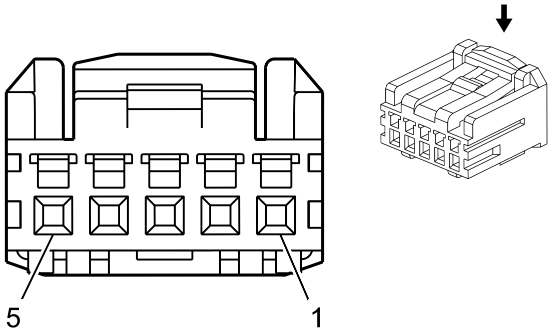
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575462	J-35616-3 (GY)	J-38125-12A	12047581	2	E	C

A3R Sunshade - Right (DH6)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	OG	1732	Courtesy Lamp Control	I	-
B	0.5	BK	1850	Ground	I	-

A5 Driver Information Center



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15491277

Service Connector: 88988747

Description: 5-Way F HCM Series (BK)

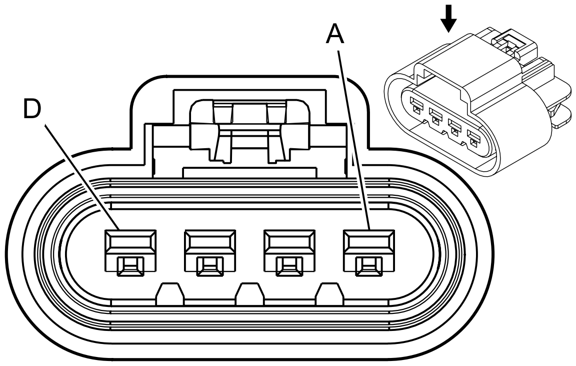
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-64B (L-BU)	J-38125-12A	SHCM-A03T-P025	20	J	J

A5 Driver Information Center

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-GN/WH	1358	Driver Information Center (DIC) Switch Signal	I	-
2	0.35	BN	897	Low Reference	I	-
3	0.35	PK	893	Driver Information Center (DIC) Select Menu Switch Signal	I	-
4	0.35	YE	6817	LED Backlight Dimming Control	I	-
5	0.5	BK/WH	351	Ground	I	-

A7 Fuel Pump and Level Sensor Assembly (LU3, L20, LMF or L96)



Connector Part Information

Harness Type: Chassis

OEM Connector: 13521459

Service Connector: 13580864

Description: 4-Way F GT 280 5.8 Series, Sealed (BK)

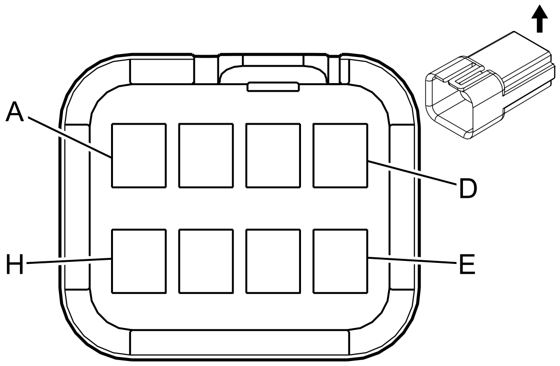
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575403	J-35616-4A (PU)	J-38125-553	13528779	19	4	5
II	13578915	J-35616-4A (PU)	J-38125-553	15304719	19	E	5

A7 Fuel Pump and Level Sensor Assembly (LU3, L20, LMF or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3 3	BK PK	150 1580	Ground Low Reference	I	LU3, L20 or L96 LMF
B	0.5 0.5	PU TN	1589 2759	Fuel Level Sensor Signal– Primary Low Reference	II	LU3, L20 or L96 LMF
C	0.5 0.5	TN PU	2759 1589	Low Reference Fuel Level Sensor Signal– Primary	II	LU3, L20 or L96 LMF
D	3	GY	120	Fuel Pump Control	I	-

A9A Outside Rearview Mirror - Driver (DE5 or DE7)



Connector Part Information

Harness Type: Driver Door

OEM Connector: 12085396

Service Connector: Service by Harness - See Part Catalog

Description: 8-Way M Metri-Pack 150 Series(NA)

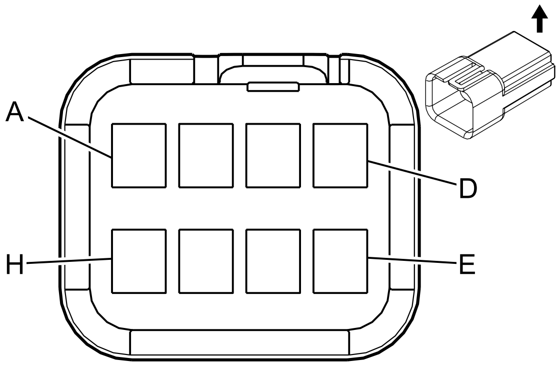
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: A, C– 13505668	J-35616-3 (GY)	J-38125-12A	12047581	2	Pins: A, C– E	A

A9A Outside Rearview Mirror - Driver (DE5 or DE7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	450	Ground	I	-
B	0.5	L-BU/WH	1314	Left Front Turn Signal Lamp Control	I	-
C	0.8	OG	2267	Mirror Heating Element Control	I	-
D	0.5	BK	450	Ground	I	-
E	0.35	YE	88	Driver Mirror Motor Up Control	I	-
F	0.35	L-GN	89	Driver Mirror Motor Down Control	I	-
G	0.35	WH	81	Driver Mirror Motor Right Control	I	-
H	0.35	YE	88	Driver Mirror Motor Up Control	I	-

A9B Outside Rearview Mirror - Passenger (DE5 or DE7)



Connector Part Information

Harness Type: Passenger Door

OEM Connector: 12162427

Service Connector: 12162427

Description: 8-Way M Metri-Pack 150 Series (NA)

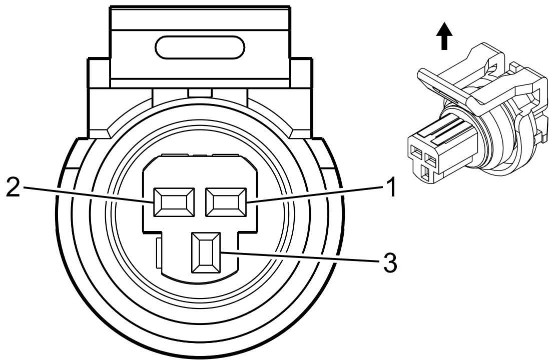
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: A, C– 13505668	J-35616-3 (GY)	J-38125-12A	12047581	2	Pins: A, C– E	A

A9B Outside Rearview Mirror - Passenger (DE5 or DE7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	1850	Ground	I	-
B	0.5	D-BU/WH	1315	Right Front Turn Signal Lamp Control	I	-
C	0.8	OG	2267	Mirror Heating Element Control	I	-
D	0.5	BK	1850	Ground	I	-
E	0.35	BN/WH	1498	Passenger Mirror Motor Left/Down Control	I	-
F	0.35	PU/WH	889	Passenger Mirror Motor Down Control	I	-
G	0.35	OG/WH	881	Passenger Mirror Motor Right Control	I	-
H	0.35	BN/WH	1498	Passenger Mirror Motor Left/Down Control	I	-

B1 A/C Refrigerant Pressure Sensor



Connector Part Information

Harness Type: Engine (LU3, L20, LMF or L96)

Harness Type: Engine Chassis (LMM or LGH)

OEM Connector: 13532244

Service Connector: 88988301

Description: 3-Way F GT 150 Series, Sealed (BK)

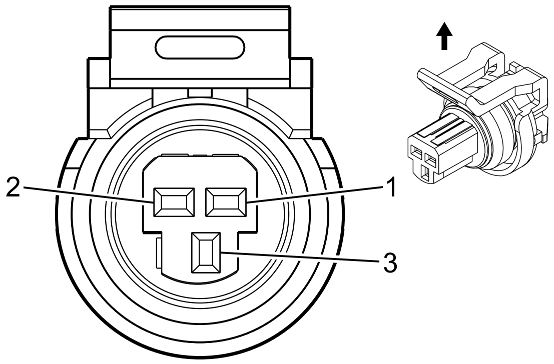
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: 1-3 (L20, L96, LMF or LU3)–13576360	J-35616-2A (GY)	J-38125-553	15326267	19	E	4

B1 A/C Refrigerant Pressure Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35 0.5	TN TN	5514 5514	Low Reference Low Reference	I	LU3, L20, LMF or L96 LMM or LGH
2	0.35 0.5	GY GY	2700 2700	5-Volt Reference 5-Volt Reference	I	LU3, L20, LMF or L96 LMM or LGH
3	0.35 0.5	OG/BK OG/BK	380 380	A/C Refrigerant Pressure Sensor Signal A/C Refrigerant Pressure Sensor Signal	I	LU3, L20, LMF or L96 LMM or LGH

B1 A/C Refrigerant Pressure Sensor (C60 and Diesel)



Connector Part Information

Harness Type: Engine

OEM Connector: 13532244

Service Connector: 88988301

Description: 3-Way F GT 150 Series, Sealed (BK)

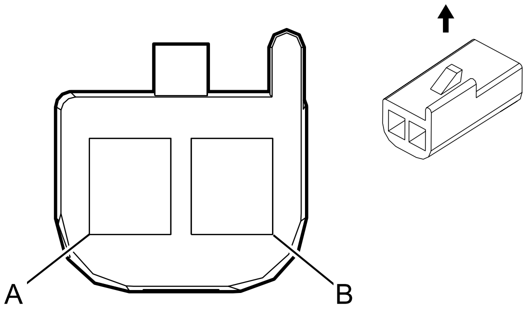
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575433	J-35616-2A (GY)	J-38125-553	15326267	19	E	4

B1 A/C Refrigerant Pressure Sensor (C60 and Diesel)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	TN	5514	Low Reference	I	-
2	0.5	GY	2700	5-Volt Reference	I	-
3	0.5	OG/BK	380	A/C Refrigerant Pressure Sensor Signal	I	-

B10 Ambient Light Sensor



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12047662

Service Connector: 12085535

Description: 2-Way F Metri-Pack 150 Series (BK)

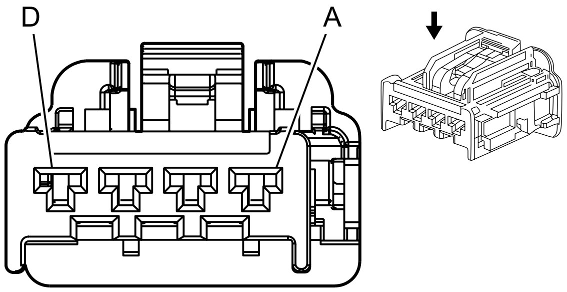
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	5	E	C

B10 Ambient Light Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	WH	278	Ambient Light Sensor Signal	I	-
B	0.35	BK/WH	351	Ground	I	-

B103 Stop Lamp Switch



Connector Part Information

Harness Type: Stop Lamp Switch Jumper

OEM Connector: 15466671

Service Connector: 19149301

Description: 4-Way F GT 280 Series (L-GY)

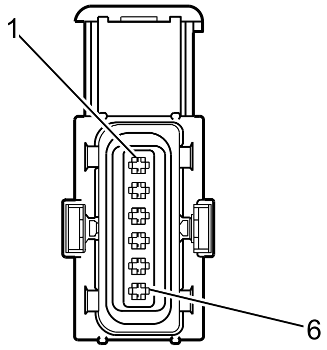
Terminal Part Information

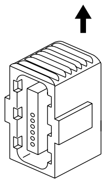
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575753	J-35616-4A (PU)	J-38125-553	15304711	8	E	A

B103 Stop Lamp Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	L-BU/WH	6311	Torque Converter Clutch (TCC) Brake Signal	I	-
B	0.35	PK	239	Ignition Voltage	I	-
C	0.35	OG/WH	812	IP Dimming Voltage Reference	I	-
D	0.35	PU	7062	Brake Switch Signal	I	-

B107 Accelerator Pedal Position Sensor





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15383136

Service Connector: 13580116

Description: 6-Way F Sealed (BK)

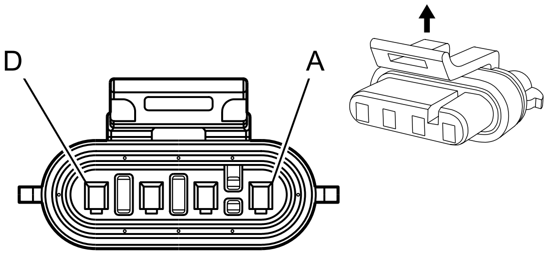
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575385	J-35616-14 (GN)	J-38125-560	4-969005-1	16	E	1

B107 Accelerator Pedal Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	TN	1274	5-Volt Reference	I	-
2	0.35	WH/BK	1164	5-Volt Reference	I	-
3	0.35	D-BU	1161	Accelerator Pedal Position (APP) Sensor 1 Signal	I	-
4	0.35	BN	1271	Low Reference	I	-
5	0.35	PU	1272	Low Reference	I	-
6	0.35	L-BU	1162	Accelerator Pedal Position (APP) Sensor 2 Signal	I	-

B112 Turbocharger Vane Position Sensor (LGH)



Connector Part Information

Harness: Engine

OEM: 12191366

Service: 88988603

Description: 4-Way F Metri-Pack 150 Series, Sealed (L-GY)

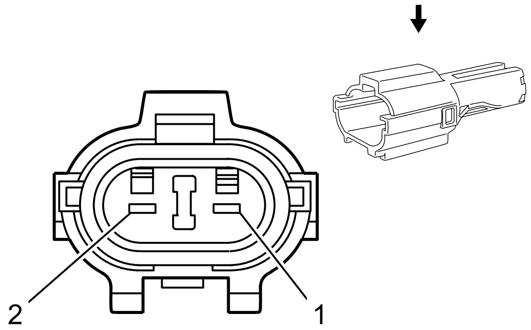
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12160223	3	E	1

B112 Turbocharger Vane Position Sensor (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	-	-	-	Not Occupied	-	-
B	0.5YE	0.5YE	5947	Turbocharger Vane Position Sensor Signal	I	-
C	0.5	OG/BK	5929	Low Reference	I	-
D	0.5	TN	5928	5-Volt Reference	I	-

B116 Water in Fuel Sensor (LGH)



Connector Part Information

Harness Type: Transmission Jumper (LGH)

OEM Connector: 10775361

Service Connector: Service by Harness– See Part Catalog

Description: 2-Way M 070 SWP Series, Sealed (GY)

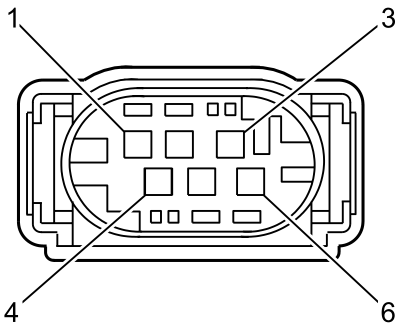
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly	J-35616-34 (YE)	J-38125-12A	10725211	Not Available	Not Available	Not Available

B116 Water in Fuel Sensor (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BU/YE	6861	Water In Fuel Sensor Signal	I	-
2	0.5	D-BU	6863	Low Reference	I	-

B119 Multi-axis Acceleration Sensor (JL4)



Connector Part Information

Harness Type: Body

OEM Connector: 15355474

Service Connector: 15306420

Description: 6-Way F 0.64 MQS Series, Sealed (BK)

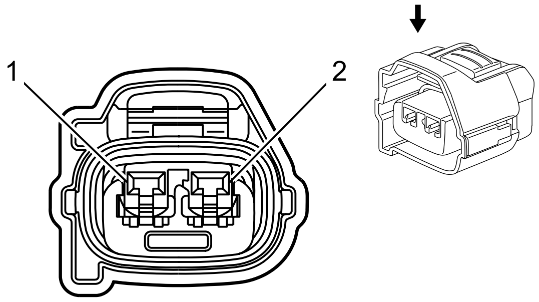
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-64B (L-BU)	J-38125-12A	962885-5	15	6	6

B119 Multi-axis Acceleration Sensor (JL4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY/BK	1337	12-Volt Reference	I	-
2	0.5	BN/WH	6437	CAN Bus High Terminated Serial Data	I	-
3	0.5	WH/BK	6436	CAN Bus Low Terminated Serial Data	I	-
4–5	-	-	-	Not Occupied	-	-
6	0.5	BK/PU	7499	Low Reference	I	-

B130A Exhaust Gas Recirculation Temperature Sensor 1 (LGH)



Connector Part Information

Harness: Engine

OEM: 7283-7020-10

Service: 13576415

Description: 2-Way F 2.3 Series, Sealed (D-GY)

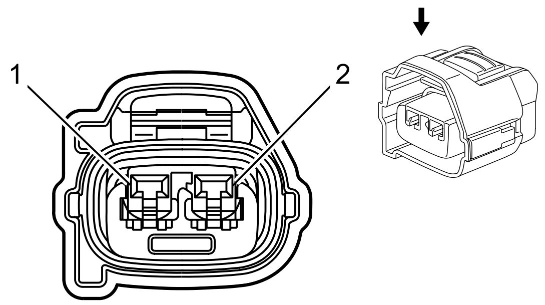
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				7116-4025	11	E	1

B130A Exhaust Gas Recirculation Temperature Sensor 1 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	PU/WH	7584	Exhaust Gas Recirculation Temperature Sensor 1 Supply Voltage	I	-
2	0.5	BN	6274	Low Reference	I	-

B130B Exhaust Gas Recirculation Temperature Sensor 2 (LGH)



Connector Part Information

Harness: Engine

OEM: 7283-7020-10

Service: 13576415

Description: 2-Way F 2.3 Series, Sealed (D-GY)

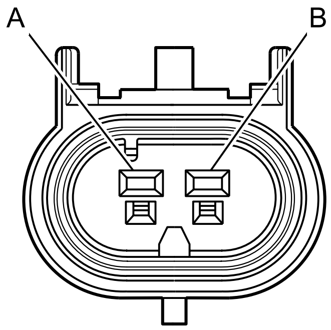
Terminal Part Information

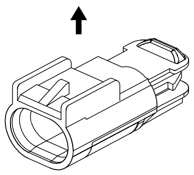
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				7116-4025	11	E	1

B130B Exhaust Gas Recirculation Temperature Sensor 2 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU	7583	Exhaust Gas Recirculation Temperature Sensor 2 Supply Voltage	I	-
2	0.5	WH	6275	Low Reference	I	-

B131A Exhaust Temperature Sensor 1 (LGH)





Connector Part Information

Harness: Engine

OEM: 13546698

Service: 13580103

Description: 2-Way M GT 150 Series Sealed (BK)

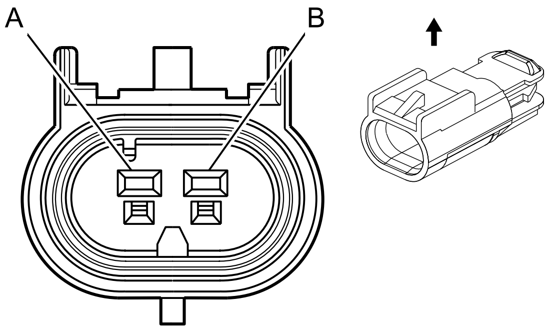
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15373403	5	E	4

B131A Exhaust Temperature Sensor 1 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	D-BU	5277	Exhaust Gas Temperature (EGT) Sensor Signal	I	-
B	0.5	BN	6782	Low Reference	I	-

B131B Exhaust Temperature Sensor 2 (LGH)



Connector Part Information

Harness: Transmission Jumper

OEM: 13510099

Service: 13580103

Description: 2-Way M GT 150 Series, Sealed (BK)

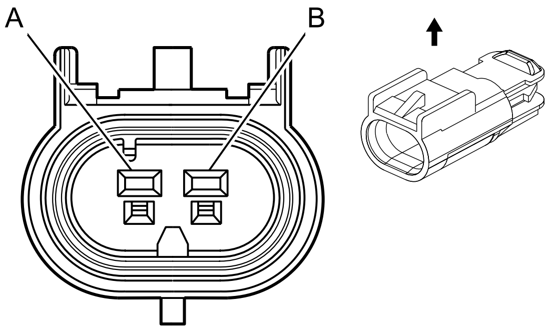
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15373403	5	E	4

B131B Exhaust Temperature Sensor 2 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-BU	5377	Exhaust Gas Temperature Sensor 2 Signal	I	-
B	0.5	BN/WH	6783	Low Reference	I	-

B131C Exhaust Temperature Sensor 3 (LGH)



Connector Part Information

- Harness: Catalytic Converter Jumper (Cutaway)
- Harness: Engine Chassis (Cargo or Passenger)
- OEM: 13546698
- Service: 13580103
- Description: 2-Way M GT 150 Series Sealed (BK)

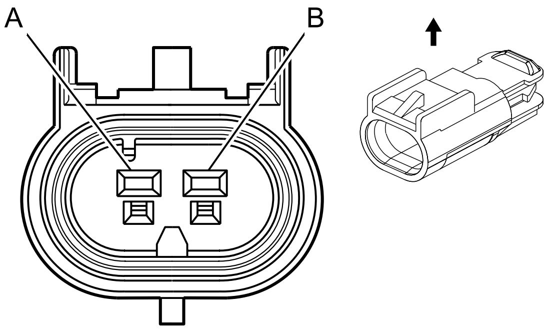
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15373403	5	E	4

B131C Exhaust Temperature Sensor 3 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-GN	5378	Exhaust Gas Temperature Sensor 3 Signal	I	-
B	0.5	TN	3657	Low Reference	I	-

B131D Exhaust Temperature Sensor 4 (LGH)



Connector Part Information

Harness: Catalytic Converter Jumper (Cutaway)

Harness: Engine Chassis (Cargo or Passenger)

OEM: 13546698

Service: 13580103

Description: 2-Way M GT 150 Series Sealed (BK)

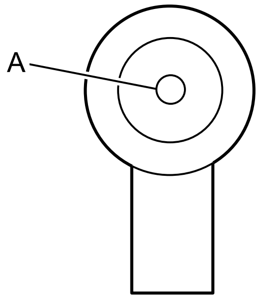
Terminal Part Information

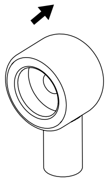
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15373403	5	E	4

B131D Exhaust Temperature Sensor 4 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	D-BU/WH	3660	Exhaust Gas Temperature Sensor 4 Signal	I	-
B	0.5	TN	3661	Low Reference	I	-

B133 Brake Booster Fluid Flow Alarm Switch X1





Connector Part Information

Harness Type: Brake Fluid Alarm Switch Jumper

OEM Connector: 6288440

Service Connector: 12101925

Description: 1-Way F Grip Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness - See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B133 Brake Booster Fluid Flow Alarm Switch X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-BU/BK	1928	Brake Booster Fluid Flow Switch Signal	I	-

B133 Brake Booster Fluid Flow Alarm Switch X2

Connector Part Information

Harness Type: Brake Fluid Alarm Switch Jumper

OEM Connector: 12103516

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

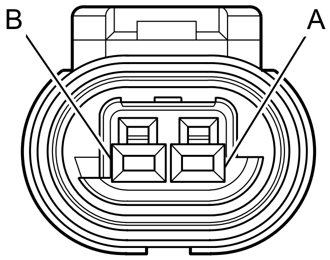
Terminal Part Information

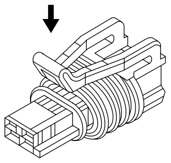
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

B133 Brake Booster Fluid Flow Alarm Switch X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BK/WH	350	Ground	I	-

B14A Transmission Output Shaft Speed Sensor





Connector Part Information

Harness Type: Engine

OEM Connector: 15449028

Service Connector: 88987993

Description: 2-Way F GT 150 Series, Sealed (BK)

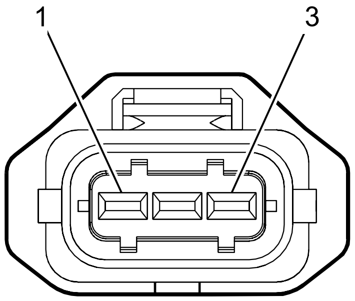
Terminal Part Information

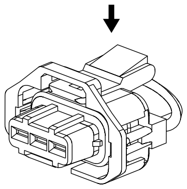
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575433	J-35616-2A (GY)	J-38125-553	15326267	19	E	4

B14A Transmission Output Shaft Speed Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-GN/BK	822	Vehicle Speed Sensor (VSS) Low Signal	I	-
B	0.5	PU/WH	821	Vehicle Speed Sensor (VSS) High Signal	I	-

B150 Fuel Tank Pressure Sensor (FHZ)





Connector Part Information

Harness Type: CNG Fuel Pressure

OEM Connector: 1928403966

Service Connector: 13585850

Description: 3-Way F Kompakt 280 Series, Sealed (BK)

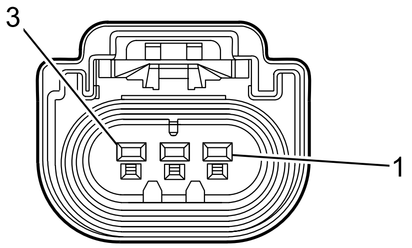
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B150 Fuel Tank Pressure Sensor (FHZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK	—	Low Reference	I	-
2	0.5	GN	—	Alternative Fuel Tank Pressure Signal	I	-
3	0.5	RD	—	5-Volt Reference	I	-

B150 Fuel Tank Pressure Sensor (LC8, LMF, LU3, L20 or L96)



Connector Part Information

Harness Type: Chassis

OEM Connector: 13522407

Service Connector: 19179274

Description: 3-Way F GT 150 Series, Sealed (BK)

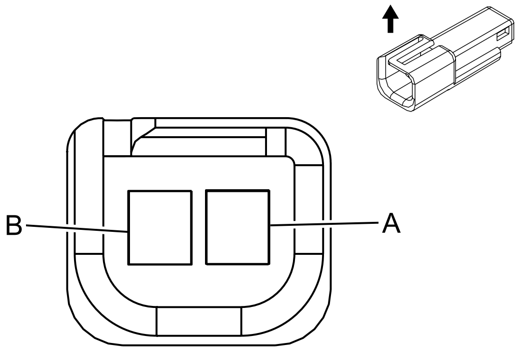
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575413	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B150 Fuel Tank Pressure Sensor (LC8, LMF, LU3, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-GN	890	Fuel Tank Pressure (FTP) Sensor Signal	I	-
2	0.5	TN	2759	Low Reference	I	-
3	0.5	GY	2709	5-Volt Reference	I	-

B153D Seat Belt Buckle - Driver



Connector Part Information

Harness Type: Driver Seat

OEM Connector: 12047663

Service Connector: 12085481

Description: 2-Way M Metri-Pack 150 Series (BK)

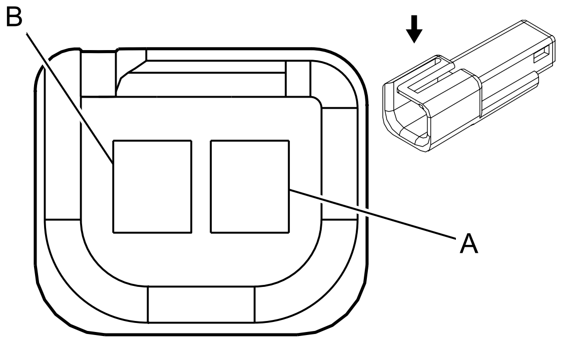
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness– See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B153D Seat Belt Buckle - Driver

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	PK	5057	Low Reference	I	-
B	0.5	TN/WH	238	Seat Belt Switch– Left	I	-

B153P Seat Belt Buckle - Passenger



Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 12048457

Service Connector: 12085481

Description: 2-Way M Metri-Pack 150 Series (BK)

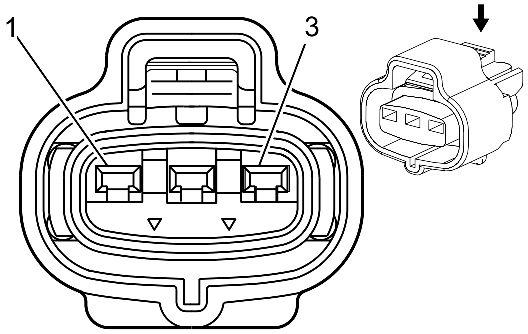
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness– See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B153P Seat Belt Buckle - Passenger

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	PK	5057	Low Reference	I	-
B	0.5	OG	1362	Seat Belt Switch– Right– Signal	I	-

B154 Diesel Particulate Filter Exhaust Differential Pressure Sensor (LGH)



Connector Part Information

Harness: Catalytic Converter Jumper (Cutaway)

Harness: Engine Chassis (Cargo or Passenger)

OEM: 15401052

Service: 88953311

Description: 3-Way F 090 Series, Sealed (BK)

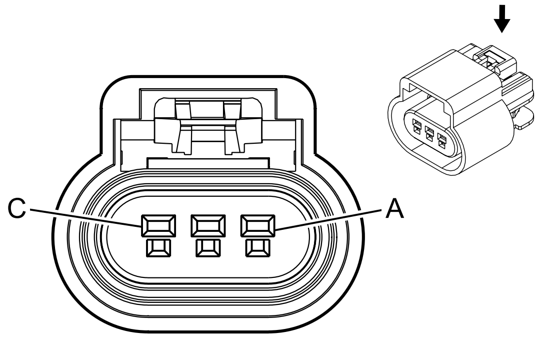
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				7116-4025	11	E	1

B154 Diesel Particulate Filter Exhaust Differential Pressure Sensor (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE/BK	6055	Low Reference	I	-
2	0.5	D-BU	6053	DPF Sensor Signal	I	-
3	0.5 0.5	GY L-GN	6054 6054	5-Volt Reference 5-Volt Reference	I	Cutaway Cargo or Passenger

B18 Battery Current Sensor



Connector Part Information

- Harness Type: Engine
- OEM Connector: 13519047
- Service Connector: 13580871
- Description: 3-Way F GT 150 Series, Sealed (BK)

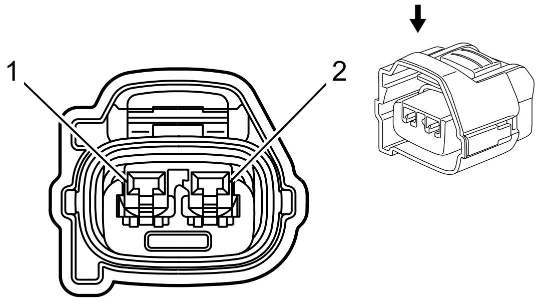
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575413	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B18 Battery Current Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	PK	5076	5-Volt Reference	I	-
B	0.5	BN	5077	Low Reference	I	-
C	0.5	WH	5075	Battery Current Sensor Signal	I	-

B193A Charge Air Cooler Inlet Temperature Sensor (LGH)



Connector Part Information

Harness: Engine

OEM: 7283-7020-10

Service: 13576415

Description: 2-Way F 2.3 Series, Sealed (D-GY)

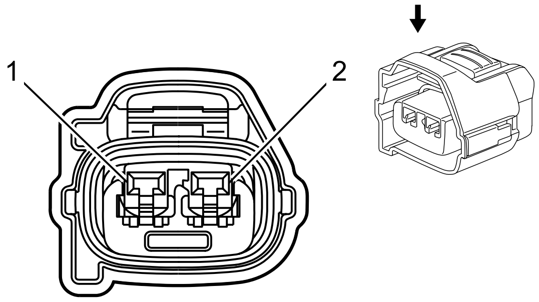
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				Pending	Pending	Pending	Pending

B193A Charge Air Cooler Inlet Temperature Sensor (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-GN	3683	Charge Air Cooler Inlet Temperature Sensor Signal	I	-
2	0.5	TN/BK	3682	Charge Air Cooler Inlet Temperature Sensor Return	I	-

B193B Charge Air Cooler Outlet Temperature Sensor (LGH)



Connector Part Information

Harness: Engine Chassis

OEM: 15401053

Service: 13576415

Description: 2-Way F 2.3 Series, Sealed (D-GY)

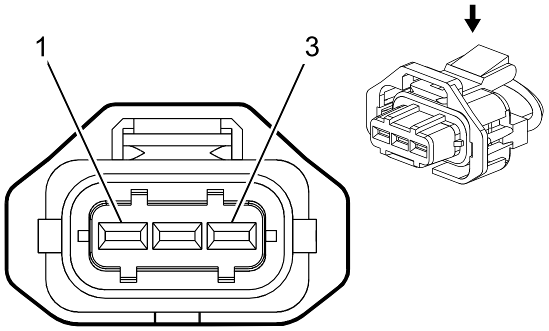
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				7116-4025	11	E	1

B193B Charge Air Cooler Outlet Temperature Sensor (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN	3681	Charge Air Cooler Outlet Temperature Sensor Signal	I	-
2	0.5	TN	3680	Charge Air Cooler Outlet Temperature Sensor Return	I	-

B194 Reductant Pressue Sensor (LGH)



Connector Part Information

Harness: Reductant Jumper

OEM: 1928403966

Service: 13585850

Description: 3-Way F Kompakt 280 Series, Sealed (BK)

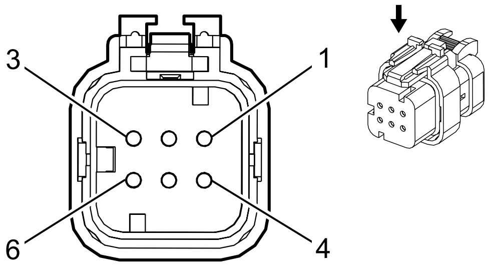
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				1928498058	8	E	1

B194 Reductant Pressue Sensor (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY	617	DEF Pressure Sensor 5V Reference	I	-
2	0.5	BN	627	DEF Pressure Sensor Signal	I	-
3	0.5	TN	637	DEF Pressure Sensor Low Reference	I	-

B195A Nitrogen Oxides Sensor 1 (LGH)



Connector Part Information

Harness: Chassis

OEM: 13738257

Service: 13578974

Description: 6-Way F (BK)

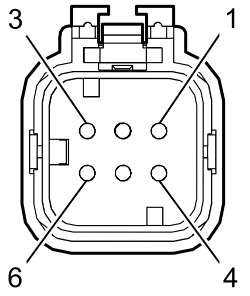
Terminal Part Information

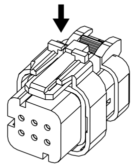
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				Pending	Pending	Pending	Pending

B195A Nitrogen Oxides Sensor 1 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	PU	3674	Nox Sensor 1 Supply Voltage	I	-
2	0.5	L-GN	7494	High Speed GMLAN Serial Data (-) (3)	I	-
3	0.5	D-GN	7493	High Speed GMLAN Serial Data (+) (3)	I	-
4	1	TN	3673	Nox Sensor 1 Ground	I	-
5	0.5	L-GN	7494	High Speed GMLAN Serial Data (-) (3)	I	-
6	0.5	D-GN	7493	High Speed GMLAN Serial Data (+) (3)	I	-

B195B Nitrogen Oxides Sensor 2 (LGH)





Connector Part Information

Harness: Catalytic Converter Jumper (Cutaway)

Harness: Engine Chassis (Cargo or Passenger)

OEM: 13734132

Service: 13579574

Description: 6-Way F (BK)

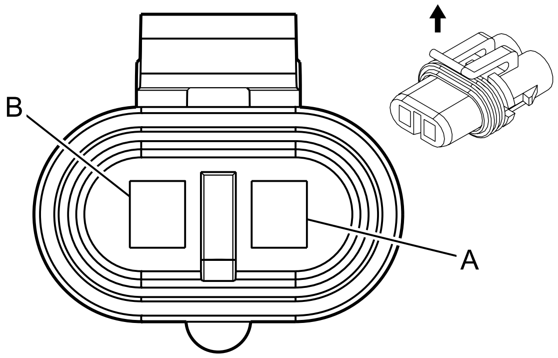
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				776491-1	17	A	
II				776491-1	17	2	

B195B Nitrogen Oxides Sensor 2 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	GY	3672	Nox Sensor 2 Supply Voltage	I	-
2	0.8	L-GN	7494	High Speed GMLAN Serial Data (-) (3)	II	-
3	0.8	D-GN	7493	High Speed GMLAN Serial Data (+) (3)	II	-
4	1	TN	3671	Nox Sensor 2 Ground	I	-
5–6	-	-	-	Not Occupied	-	-

B19A Brake Booster Fluid Pressure Alarm Switch



Connector Part Information

Harness Type: Brake Fluid Alarm Switch Jumper

OEM Connector: 12020599

Service Connector: 13585617

Description: 2-Way F Metri-Pack 280 Series (BK)

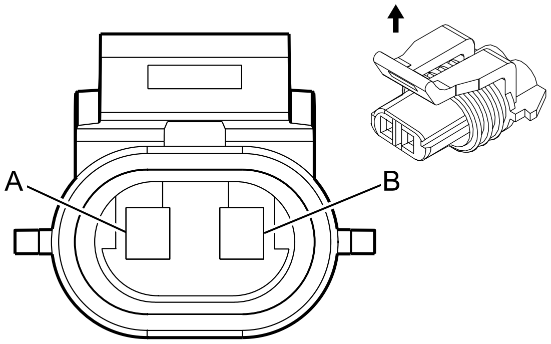
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-4A (PU)	J-38125-11A	12077411	2	2	5

B19A Brake Booster Fluid Pressure Alarm Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	TN/WH	33	Brake Warning Indicator Control	I	-
B	0.5	L-BU/BK	1928	Brake Booster Fluid Flow Switch Signal	I	-

B1B A/C Low Pressure Switch (C60 and Diesel)



Connector Part Information

Harness Type: Engine Chassis

OEM Connector: 12052644

Service Connector: 15306302

Description: 2-Way F Metri-Pack 150 Series, Sealed (GY)

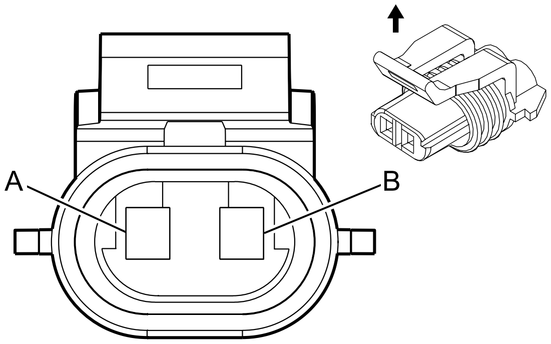
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575419	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

B1B A/C Low Pressure Switch (C60 and Diesel)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-GN	66	A/C Request Signal	I	-
B	0.5	L-GN/WH	66	A/C Request Signal	I	-

B1B A/C Low Side Pressure Switch



Connector Part Information

Harness Type: Engine (LU3, L20, LMF or L96)

Harness Type: Engine Chassis (LMM or LGH)

OEM Connector: 12052644

Service Connector: 53306302

Description: 2-Way F Metri-Pack 150 Series, Sealed (GY)

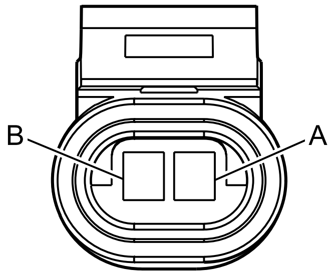
Terminal Part Information

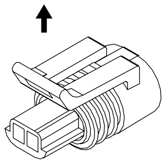
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575419	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

B1B A/C Low Side Pressure Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-GN	66	A/C Request Signal	I	-
B	0.5	L-GN	66	A/C Request Signal	I	-

B20 Brake Fluid Level Switch





Connector Part Information

Harness Type: Engine (L20 or L96)

Harness Type: Engine Chassis (LMM or LGH)

OEM Connector: 12162193

Service Connector: 88987993

Description: 2-Way F Metri-Pack 150.2 Series, Sealed (BK)</

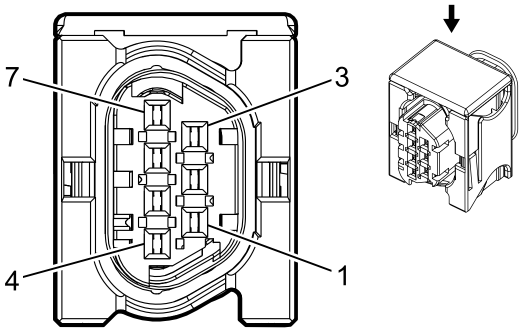
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-14 (GN)	J-38125-559	12124075	5	E	C

B20 Brake Fluid Level Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BK/WH	1551	Ground	I	-
B	0.5	PU	333	Brake Fluid Level Sensor Signal	I	-

B212 Reductant Sensor Module X1 (LGH)



Connector Part Information

Harness: Reductant Jumper

OEM: 1928404791

Service: 13584258

Description: 7-Way F 1.6 Series, Sealed (BK)

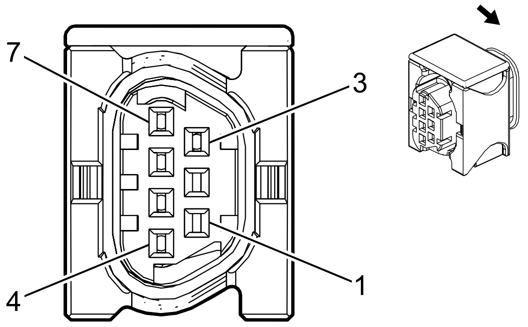
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				964274-2	16	E	1

B212 Reductant Sensor Module X1 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	PK/BK	117	Ignition Voltage	I	-
2	0.5	BK	127	Ground	I	-
3	-	-	-	Not Occupied	-	-
4	0.5	D-GN	147	High Speed GMLAN Serial Data (-) (3)	I	-
5	0.5	L-GN	157	High Speed GMLAN Serial Data (+) (3)	I	-
6	0.5	D-GN	167	High Speed GMLAN Serial Data (-) (3)	I	-
7	0.5	L-GN	177	High Speed GMLAN Serial Data (-) (3)	I	-

B212 Reductant Sensor Module X2 (LGH)



Connector Part Information

Harness: Reductant Fluid Reservoir Assembly

OEM: 1928405374

Service: Service by Harness - See Part Catalog

Description: 7-Way F 1.6 Series, Sealed (BK)

Terminal Part Information

Service: Service by Component Assembly – See Part Catalog

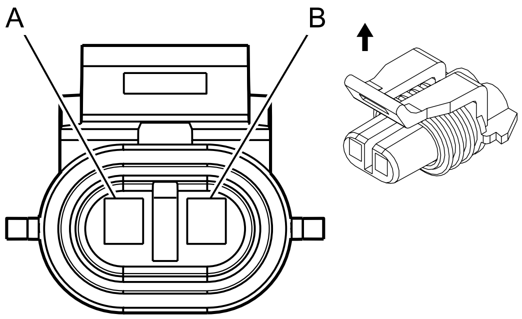
Release Tool: No Tool Required

Diagnostic Test Probe: No Tool Required

B212 Reductant Sensor Module X2 (LGH)

Pin	Wire	Circuit	Function
1	—	—	Not Used
2	WH	—	Temperature Sensor Signal Low
3	BK	—	Temperature Sensor Reference Voltage
4	GY	—	Level Sensor Common
5	RD	—	Level Sensor 1 Signal
6	BU	—	Level Sensor 2 Signal
7	YE	—	Level Sensor 3 Signal

B215 Fuel Filter Pressure Switch (LGH)



Connector Part Information

Harness: Engine

OEM: 12052641

Service: 12102747

Description: 2-Way F Metri-Pack 150 Series (BK)

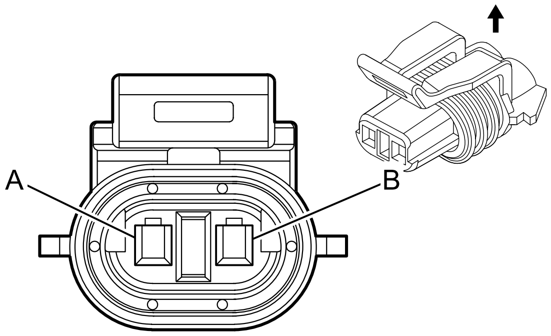
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12160223	3	E	1

B215 Fuel Filter Pressure Switch (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	GY/BK	5765	Fuel Filter Pressure Switch Signal	I	-
B	0.5	BK	450	Ground	I	-

B21C Brake Pressure Differential Switch



Connector Part Information

Harness Type: Chassis

OEM Connector: 12052646

Service Connector: 12101857

Description: 2-Way F Metri-Pack 150 Sealed (WH)

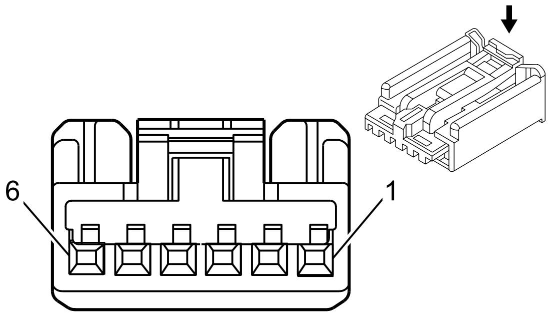
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A– 13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	Pin A– 2	1

B21C Brake Pressure Differential Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	BK	2150	Ground	I	-
B	0.5	PU	333	Brake Fluid Level Sensor Signal	I	-

B22 Brake Pedal Position Sensor



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13595476

Service Connector: 19167753

Description: 6-Way F AIT II Series (BK)

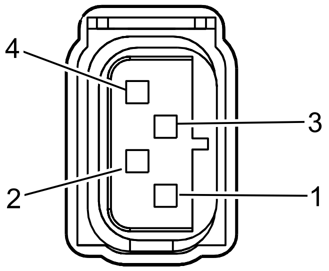
Terminal Part Information

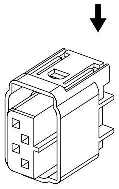
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575867	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

B22 Brake Pedal Position Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN	5382	Brake Position Sensor Low Reference	I	-
2	0.5	GY	5381	Brake Position Sensor 5 Volt Reference	I	-
3	0.5	TN	5380	Brake Position Sensor Signal	I	-
4	0.5	YE	5361	Brake Apply Sensor Signal	I	-
5	0.5	BN	5360	Brake Apply Sensor Low Reference	I	-
6	0.5	WH	5359	Brake Apply Sensor Supply Voltage	I	-

B229 Alternative Fuel Rail Pressure/Temperature Sensor (KO7 with UFM)





Connector Part Information

Harness Type: LPG Main

OEM Connector: 1-967640-1

Service Connector: 13585332

Description: 4-Way F 0.64 MQS Series, Sealed (BK)

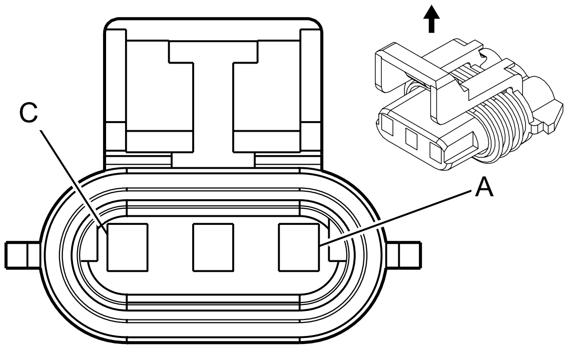
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-64B (L-BU)	J-38125-12A	962885-5	15	6	6

B229 Alternative Fuel Rail Pressure/Temperature Sensor (KO7 with UFM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK	—	Low Reference	I	-
2	0.5	GN	—	LPG Pressure Signal	I	-
3	0.5	WH	—	LPG Temperature Signal	I	-
4	0.5	RD	—	5–Volt Reference	I	-

B23 Camshaft Position Sensor (LC8, LMF, L20 or L96)



Connector Part Information

Harness Type: Camshaft Position Sensor Jumper

OEM Connector: 12110293

Service Connector: 12117025

Description: 3-Way F Metri-Pack 150 Series, Sealed (BK)

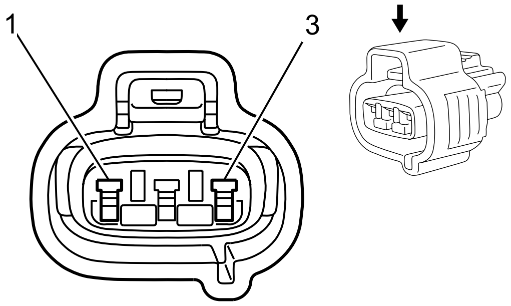
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

B23 Camshaft Position Sensor (LC8, LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	D-BU	6259	5-Volt Reference	I	-
B	0.35	BN	6266	Low Reference	I	-
C	0.35	D-BU/WH	6265	Camshaft Position (CMP) Sensor Signal	I	-

B23 Camshaft Position Sensor (LGH)



Connector Part Information

Harness Type: Engine

OEM Connector: 6248-5317

Service Connector: 13576413

Description: 3-Way F Sealed (GY)

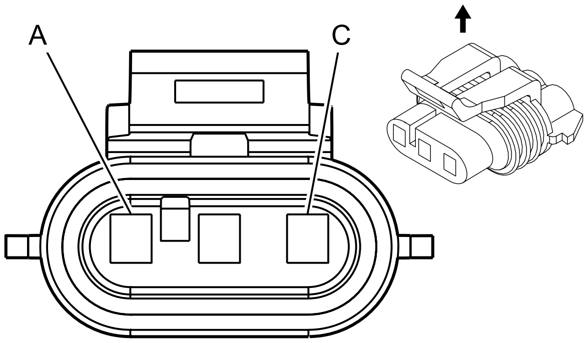
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-18 (BK)	J-38125-552	7116-4025	11	E	1

B23 Camshaft Position Sensor (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU/WH	6265	Camshaft Position (CMP) Sensor Signal	I	-
2	0.5	BN	6266	Low Reference	I	-
3	0.5	D-BU	6259	5-Volt Reference	I	-

B23 Camshaft Position Sensor (LU3)



Connector Part Information

Harness Type: Camshaft Position Sensor Jumper

OEM Connector: 12059595

Service Connector: 13585316

Description: 3-Way F Metri-Pack 150 Series, Sealed (BK)

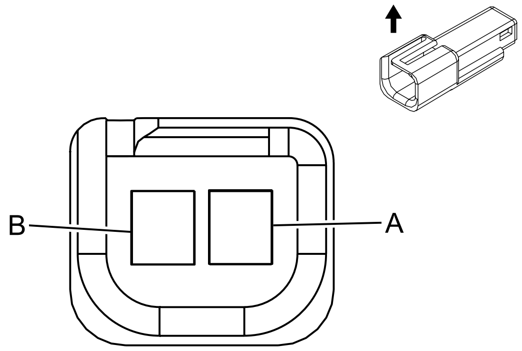
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575419	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

B23 Camshaft Position Sensor (LU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	RD	631	12-Volt Reference	I	-
B	0.35	PK/BK	632	Low Reference	I	-
C	0.35	BN/WH	633	Camshaft Position (CMP) Sensor Signal	I	-

B24 Cellular Phone Microphone



Connector Part Information

Harness: Front Headliner

OEM: 12047663

Service: 12085481

Description: 2-Way M Metri-Pack 150 Series (BK)

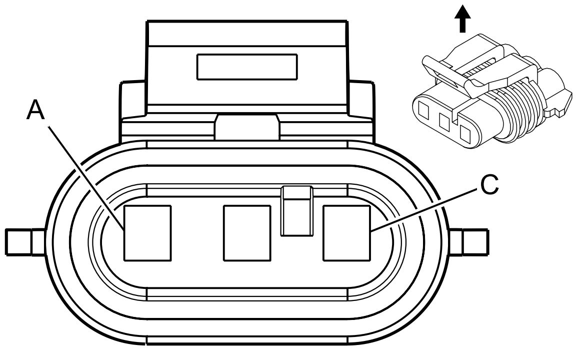
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12047581	2	E	A

B24 Cellular Phone Microphone

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-GN	654	Low Reference	I	-
B	0.8	GY	655	Cellular Telephone Voice Signal	I	-

B26 Crankshaft Position Sensor (LC8, LMF, L20 or L96)



Connector Part Information

Harness Type: Engine

OEM Connector: 12129946

Service Connector: 88987997

Description: 3-Way F Metri-Pack 150 Series, Sealed (GY)

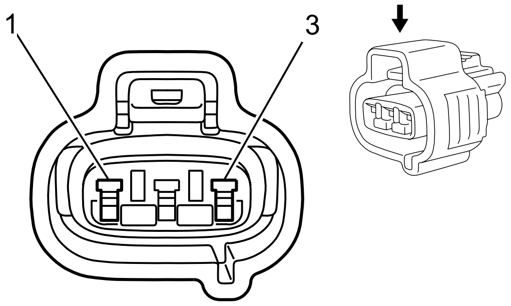
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

B26 Crankshaft Position Sensor (LC8, LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	WH/BK	6271	Crankshaft Position (CKP) Sensor Signal	I	-
B	0.8	GY/BK	6272	Low Reference	I	-
C	0.8	PU/WH	6270	5-Volt Reference	I	-

B26 Crankshaft Position Sensor (LGH)



Connector Part Information

Harness: Engine

OEM: 6248-5317

Service: 13576413

Description: 3-Way F Sealed (GY)

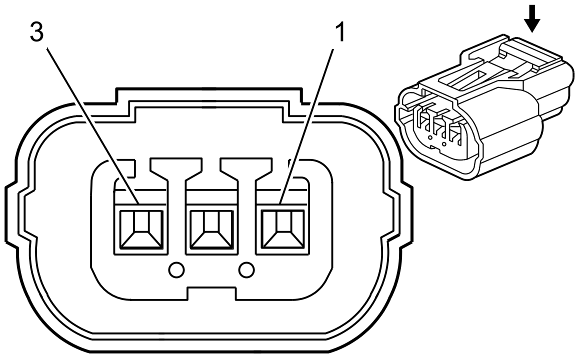
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				8100-0460	6	E	1

B26 Crankshaft Position Sensor (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH/BK	6271	Crankshaft Position (CKP) Sensor Signal	I	-
2	0.5	GY/BK	6272	Low Reference	I	-
3	0.5	PU/WH	6270	5-Volt Reference	I	-

B26 Crankshaft Position Sensor (LU3)



Connector Part Information

Harness Type: Engine

OEM Connector: 13544000

Service Connector: 19179280

Description: 3-Way F HX 040 Series, Sealed (BK)

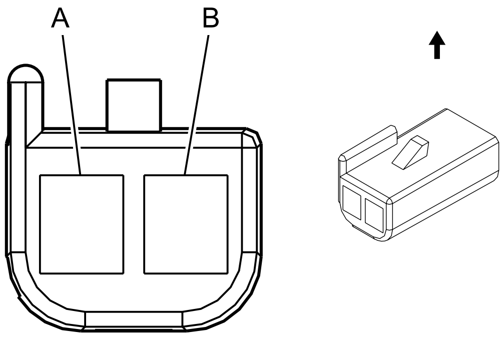
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly	J-35616-16 (L-GN)	J-38125-553	Not Available	Not Available	Not Available	Not Available

B26 Crankshaft Position Sensor (LU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	PU/WH	6270	5-Volt Reference	I	-
2	0.35	GY/BK	6272	Low Reference	I	-
3	0.35	WH/BK	6271	Crankshaft Position (CKP) Sensor Signal	I	-

B28LR Door Ajar Switch - Left Rear (E26)



Connector Part Information

Harness Type: Body

OEM Connector: 12059251

Service Connector: 12101848

Description: 2-Way F Metri-Pack 150 Series (RD)

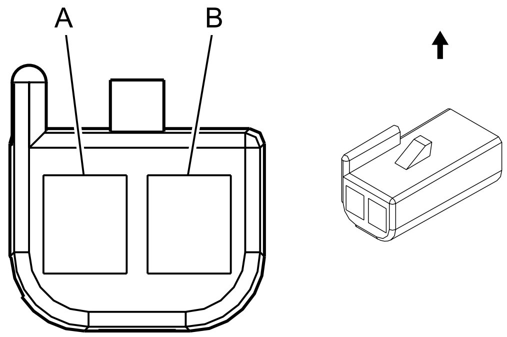
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	5	E	C

B28LR Door Ajar Switch - Left Rear (E26)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK	450	Ground	I	-
B	0.35	D-BU/WH	1179	Left Rear Door Open Switch Signal	I	-

B28RR Door Ajar Switch - Right Rear



Connector Part Information

Harness Type: Body

OEM Connector: 12059251

Service Connector: 12101848

Description: 2-Way F Metri-Pack 150 Series (RD)

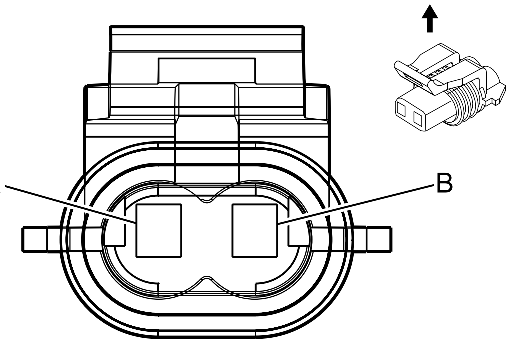
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	5	E	C

B28RR Door Ajar Switch - Right Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK	1850	Ground	I	-
B	0.35	YE/BK	1181	Right Rear Door Open Switch Signal	I	-

B33 Engine Coolant Level Switch (LGH)



Connector Part Information

Harness: Engine Chassis

OEM: 15324243

Service: 15306302

Description: 2-Way F Metri-Pack 150 Series, Sealed (GY)

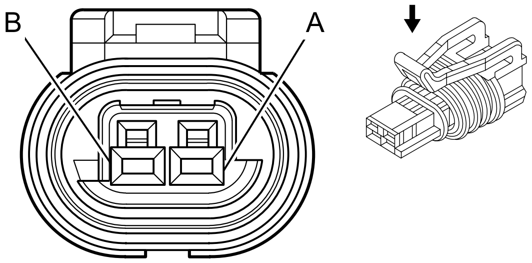
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12048074	2	E	1

B33 Engine Coolant Level Switch (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-GN	1478	Coolant Level Switch Signal	I	-
B	0.5	BK/WH	351	Ground	I	-

B34 Engine Coolant Temperature Sensor (LC8, LMF, L20 or L96)



Connector Part Information

Harness Type: Engine

OEM Connector: 15449028

Service Connector: 88987993

Description: 2-Way F GT 150 Series, Sealed (BK)

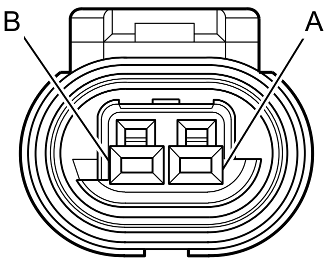
Terminal Part Information

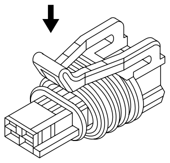
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575400	J-35616-2A (GY)	J-38125-553	15326267	19	E	1

B34 Engine Coolant Temperature Sensor (LC8, LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	2761	Low Reference	I	-
B	0.8	YE	410	Engine Coolant Temperature (ECT) Sensor Signal	I	-

B34 Engine Coolant Temperature Sensor (LGH)





Connector Part Information

Harness: Enginer Jumper

OEM: 15449028

Service: 88987993

Description: 2-Way F GT 150 Series Sealed (BK)

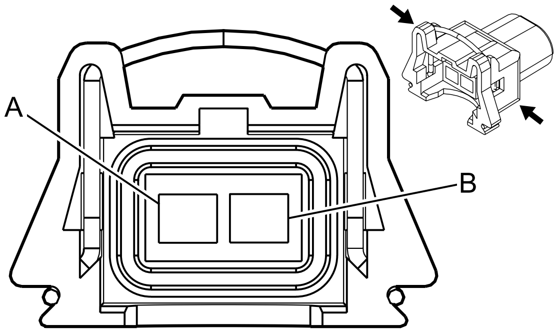
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15326267	19	E	4

B34 Engine Coolant Temperature Sensor (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	YE	410	Engine Coolant Temperature (ECT) Sensor Signal	I	-
B	0.5	TN	2761	Low Reference	I	-

B35 Engine Oil Level Switch (LGH)



Connector Part Information

Harness: Engine Jumper

OEM: 12129140

Service: 12085491

Description: 2-Way F Metri-Pack 280.1 , Pull To Seat (BK)

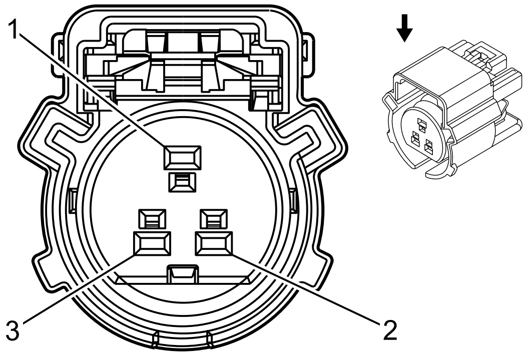
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12077939	18	E	A

B35 Engine Oil Level Switch (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BN	1174	Oil Level Switch Signal	I	-
B	0.5	BK/WH	451	Ground	I	-

B37B Engine Oil Pressure Sensor (LC8, LMF, L20 or L96)



Connector Part Information

Harness Type: Engine

OEM Connector: 13589761

Service Connector: 13501882

Description: 3-Way F GT 150 Series, Sealed (BK)

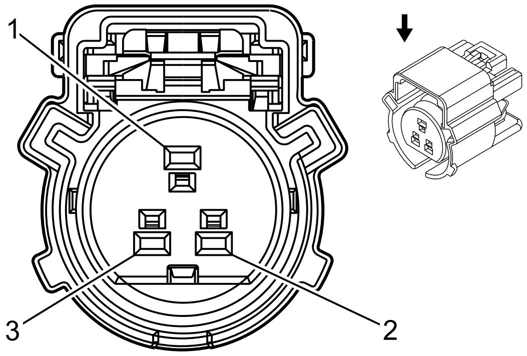
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327113	J-35616-2A (GY)	J-38125-553	12191819	8	2	1

B37B Engine Oil Pressure Sensor (LC8, LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	TN/WH	331	Oil Pressure Sensor Signal	I	-
2	0.8	GY	2705	5-Volt Reference	I	-
3	0.8	BK	2755	Low Reference	I	-

B37B Engine Oil Pressure Sensor (LGH)



Connector Part Information

Harness Type: Engine Jumper

OEM Connector: 13589761

Service Connector: 13501882

Description: 3-Way F GT 150 Series, Sealed (BK)

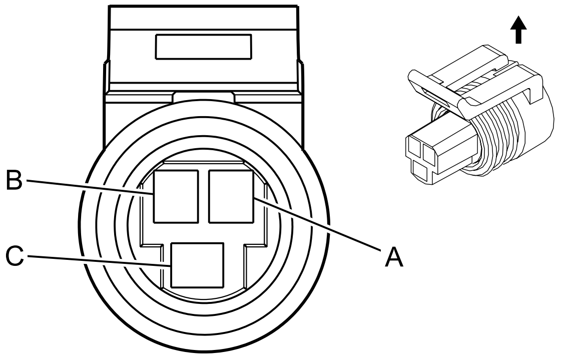
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575400	J-35616-2A (GY)	J-38125-553	15326267	19	E	4

B37B Engine Oil Pressure Sensor (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	TN/WH	331	Oil Pressure Sensor Signal	I	-
2	0.5	GY	2705	5-Volt Reference	I	-
3	0.5	BK	2755	Low Reference	I	-

B37B Engine Oil Pressure Sensor (LU3)



Connector Part Information

Harness Type: Engine

OEM Connector: 12065287

Service Connector: 13586573

Description: 3-Way F Metri-Pack 150 Series (BK)

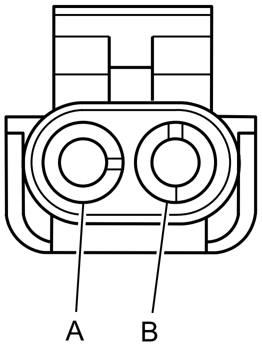
Terminal Part Information

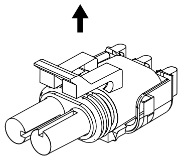
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-14 (GN)	J-38125-559	12103881	2	E	C

B37B Engine Oil Pressure Sensor (LU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	2755	Low Reference	I	-
B	0.8	GY	2705	5-Volt Reference	I	-
C	0.8	TN/WH	331	Oil Pressure Sensor Signal	I	-

B46 Fuel Level Sensor (KO7 with UFM)





Connector Part Information

Harness Type: LPG Tank

OEM Connector: 12015792

Service Connector: 12126452

Description: 2-Way F Weather Pack Series (BK)

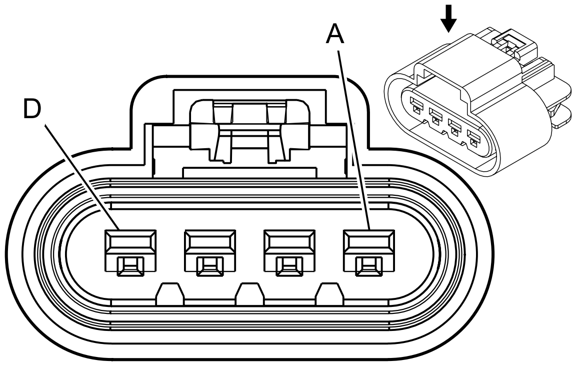
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-8 (OG)	J-38125-10A	12089188	3	E	5

B46 Fuel Level Sensor (KO7 with UFM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	—	Fuel Level Sensor	I	-
B	0.8	PU	—	Low Reference	I	-

B46 Fuel Level Sensor (LGH)



Connector Part Information

Harness Type: Chassis

OEM Connector: 13521459

Service Connector: 13580864

Description: 4-Way F GT 280 5.8 Series, Sealed (BK)

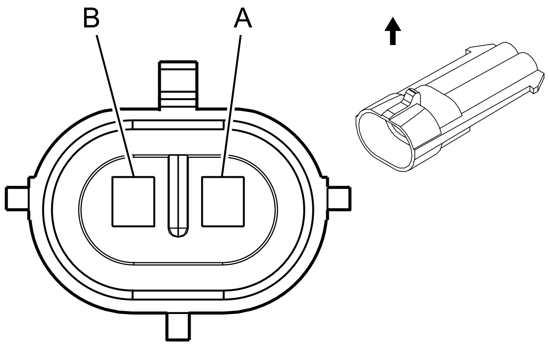
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15304719	19	E	5

B46 Fuel Level Sensor (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	-	-	-	Not Occupied	-	-
B	0.35	PU	1589	Fuel Level Sensor Signal – Primary	I	-
C	0.35	TN	2759	Low Reference	I	-
D	-	-	-	Not Occupied	-	-

B46A Fuel Level Sensor - Primary (KO7 with UFP)



Connector Part Information

Harness Type: LPG

OEM Connector: 12162000

Service Connector: 12167120

Description: 2-Way M Metri-Pack 150 Series (BK)

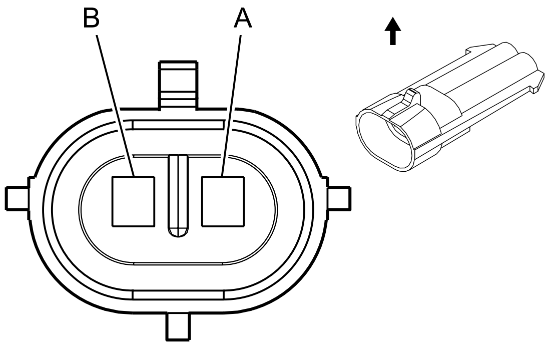
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-3 (GY)	J-38125-12A	12045773	2	E	1

B46A Fuel Level Sensor - Primary (KO7 with UFP)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BN	—	LPG Primary Fuel Sender	I	-
B	0.8	BK	—	Ground	I	-

B46B Fuel Level Sensor - Secondary (KO7 with UFP)



Connector Part Information

Harness Type: LPG

OEM Connector: 12162000

Service Connector: 12167120

Description: 2-Way M Metri-Pack 150 Series (BK)

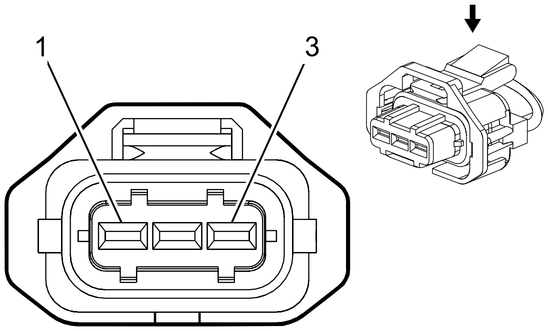
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-3 (GY)	J-38125-12A	12045773	2	E	1

B46B Fuel Level Sensor - Secondary (KO7 with UFP)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	GN	—	LPG Secondary Fuel Sender	I	-
B	0.8	BK	—	Ground	I	-

B47B Fuel Rail Pressure Sensor (LGH)



Connector Part Information

Harness: Fuel Rail Jumper

OEM: 1928403968

Service: 88988595

Description: 3-Way F Kompakt 2.8 Series Sealed (BK)

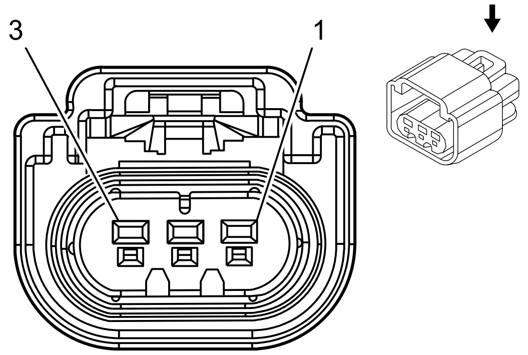
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				1928498054	8	E	1

B47B Fuel Rail Pressure Sensor (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/BK	2919	Low Reference	I	-
2	0.5	YE	2918	Fuel Rail Pressure (FRP) Sensor Signal	I	-
3	0.5	TN	2917	5-Volt Reference	I	-

B47B Fuel Rail Pressure Sensor (LMF)



Connector Part Information

Harness Type: Chassis

OEM Connector: 13511131

Service Connector: 19168035

Description: 3-Way F GT 150 Series, Sealed (BK)

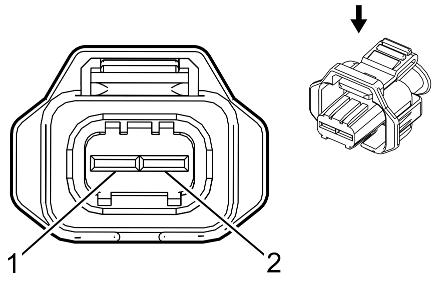
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575354	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B47B Fuel Rail Pressure Sensor (LMF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	PU	7446	Fuel Line Pressure Sensor Signal	I	-
2	0.5	GY	7447	Low Reference	I	-
3	0.5	BN	7445	5-Volt Reference	I	-

B48A Fuel Temperature Sensor 1 (LGH)



Connector Part Information

Harness Type: Engine Jumper

OEM Connector: 7283-6549-30

Service Connector: Service by Harness– See Part Catalog

Description: 2-Way F 2.8 Series, Sealed (BK)

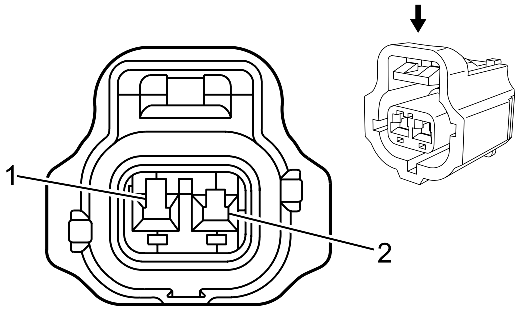
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-35 (VT)	J-38125-561	1928498054	8	E	1

B48A Fuel Temperature Sensor 1 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN/GY	7072	Fuel Temperature Sensor 1 Signal	I	-
2	0.5	BN/WH	7073	Low Reference	I	-

B48B Fuel Temperature Sensor 2 (LGH)



Connector Part Information

Harness Type: Fuel Rail Jumper

OEM Connector: 178392-6

Service Connector: 88988159

Description: 2-Way F Sealed (GY)

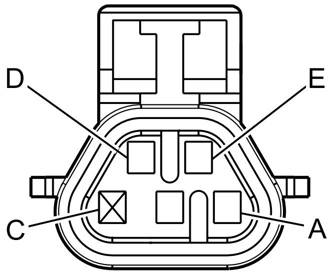
Terminal Part Information

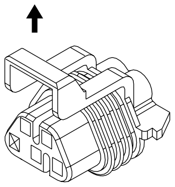
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-33 (YE)	J-38125-12A	184030-1	7	E	D

B48B Fuel Temperature Sensor 2 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	1578	Fuel Temperature Sensor 2 Signal	I	-
2	0.5	BN	6062	Low Reference	I	-

B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (Cutaway with LC8 or L96)





Connector Part Information

Harness Type: Engine

OEM Connector: 12146047

Service Connector: 12146047

Description: 5-Way F Metri-Pack 150 Series, Sealed (BK)

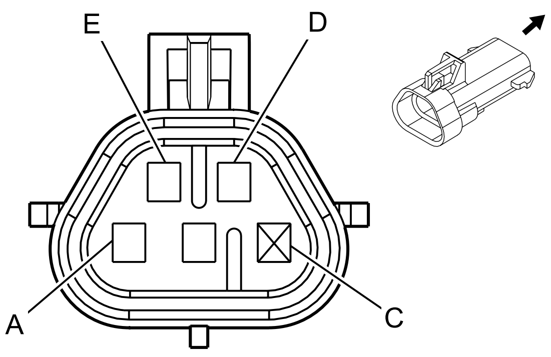
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (Cutaway with LC8 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	1664	Heated Oxygen Sensor (HO2S) Low Signal – Bank 1 Sensor 1	I	-
B	0.8	PU/WH	1665	Heated Oxygen Sensor (HO2S) High Signal – Bank 1 Sensor 1	I	-
C	-	-	-	Not Occupied	-	-
D	0.8	PK	539	Ignition Voltage	I	-
E	0.8	GY/WH	3113	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank 1 Sensor 1	I	-

B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (Gas except Cutaway with LC8 or L96)



Connector Part Information

Harness Type: Engine

OEM Connector: 12092840

Service Connector: 15306311

Description: 5-Way M Metri-Pack 150 Series, Sealed (GY)

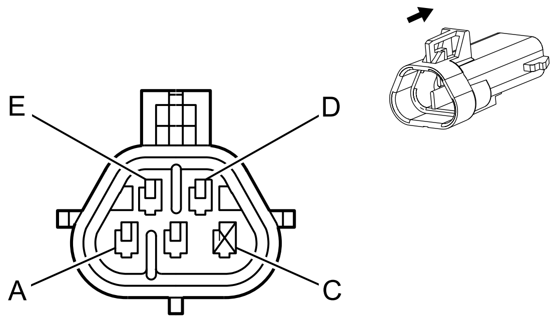
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-3 (GY)	J-38125-12A	12045773	2	E	1

B52C Heated Oxygen Sensor - Bank 1 Sensor 1 (Gas except Cutaway with LC8 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	1664	Heated Oxygen Sensor (HO2S) Low Signal – Bank 1 Sensor 1	I	-
B	0.8	PU/WH	1665	Heated Oxygen Sensor (HO2S) High Signal – Bank 1 Sensor 1	I	-
C	-	-	-	Not Occupied	-	-
D	0.8	PK	539	Ignition Voltage	I	-
E	0.8	GY/WH	3113	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank 1 Sensor 1	I	-

B52D Heated Oxygen Sensor - Bank 1 Sensor 2



Connector Part Information

Harness Type: Engine (Full Body with L20, L96, LMF or LU3)

Harness Type: Heated Oxygen Sensor Jumper (Cutaway with L20 or L96)

OEM Connector: 12092839

Service Connector: 13585848

Description: 5-Way M Metri-Pack 150 Series (BK)

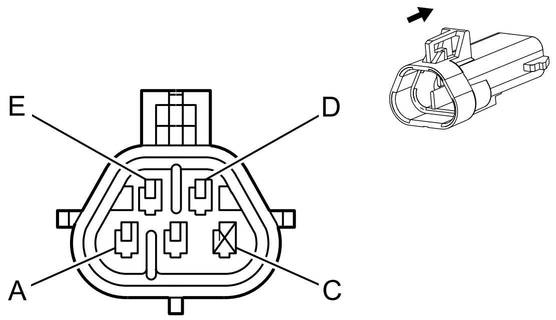
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-3 (GY)	J-38125-12A	12045773	2	E	1

B52D Heated Oxygen Sensor - Bank 1 Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN/WH	1669	Heated Oxygen Sensor (HO2S) Low Signal – Bank 1 Sensor 2	I	-
B	0.8	PU/WH	1668	Heated Oxygen Sensor (HO2S) High Signal – Bank 1 Sensor 2	I	-
C	-	-	-	Not Occupied	-	-
D	0.8	PK	1539	Ignition Voltage	I	-
E	0.8	GY/WH	3122	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank 1 Sensor 2	I	-

B52D Heated Oxygen Sensor - Bank 1 Sensor 2 (Cutaway with L20 or L96)



Connector Part Information

Harness Type: Heated Oxygen Sensor Jumper

OEM Connector: 12092839

Service Connector: 13585848

Description: 5-Way M Metri-Pack 150 Series (BK)

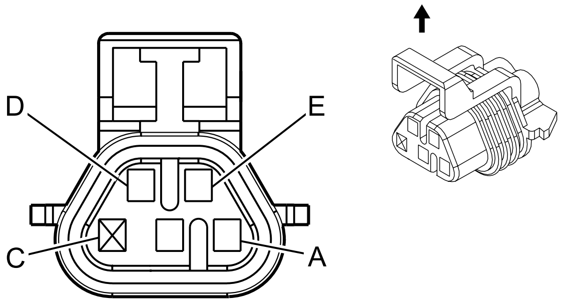
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 13585848	J-35616-3 (GY)	J-38125-12A	12045773	2	E	1

B52D Heated Oxygen Sensor - Bank 1 Sensor 2 (Cutaway with L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN/WH	1669	Heated Oxygen Sensor (HO2S) Low Signal – Bank 1 Sensor 2	I	-
B	0.8	PU/WH	1668	Heated Oxygen Sensor (HO2S) High Signal – Bank 1 Sensor 2	I	-
C	-	-	-	Not Occupied	-	-
D	0.8	PK	1539	Ignition Voltage	I	-
E	0.8	GY/WH	3122	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank 1 Sensor 2	I	-

B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (Cutaway with LC8 or L96)



Connector Part Information

Harness Type: Engine

OEM Connector: 12146047

Service Connector: 12146047

Description: 5-Way F Metri-Pack 150 Series, Sealed (BK)

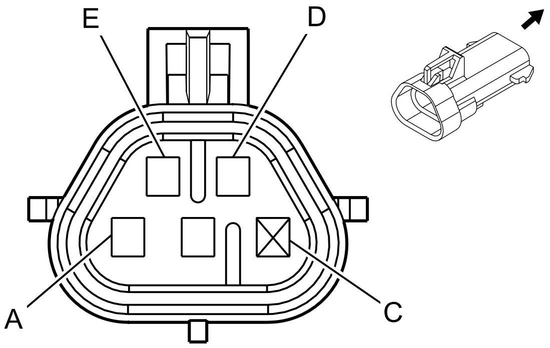
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (Cutaway with LC8 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	1667	Heated Oxygen Sensor (HO2S) Low Signal – Bank 2 Sensor 1	I	-
B	0.8	PU	1666	Heated Oxygen Sensor (HO2S) High Signal – Bank 2 Sensor 1	I	-
C	-	-	-	Not Occupied	-	-
D	0.8	PK	539	Ignition Voltage	I	-
E	0.8	L-GN	3212	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank 2 Sensor 1	I	-

B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (Gas except Cutaway with LC8 or L96)



Connector Part Information

Harness Type: Engine

OEM Connector: 12092840

Service Connector: 15306311

Description: 5-Way M Metri-Pack 150 Series, Sealed (GY)

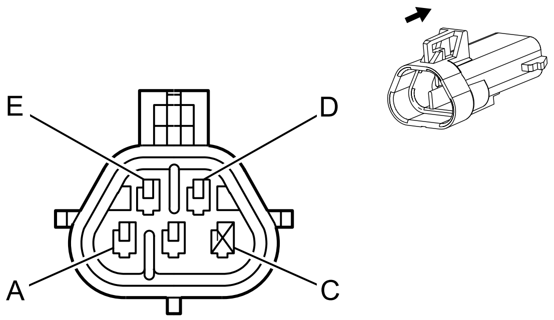
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-3 (GY)	J-38125-12A	12045773	2	E	1

B52E Heated Oxygen Sensor - Bank 2 Sensor 1 (Gas except Cutaway with LC8 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	1667	Heated Oxygen Sensor (HO2S) Low Signal – Bank 2 Sensor 1	I	-
B	0.8	PU	1666	Heated Oxygen Sensor (HO2S) High Signal – Bank 2 Sensor 1	I	-
C	-	-	-	Not Occupied	-	-
D	0.8	PK	539	Ignition Voltage	I	-
E	0.8	L-GN	3212	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank 2 Sensor 1	I	-

B52F Heated Oxygen Sensor - Bank 2 Sensor 2



Connector Part Information

Harness Type: Engine (Full Body with L20, L96, LMF or LU3)

Harness Type: Heated Oxygen Sensor Jumper (Cutaway with L20 or L96)

OEM Connector: 12092839

Service Connector: 13585848

Description: 5-Way M Metri-Pack 150 Series (BK)

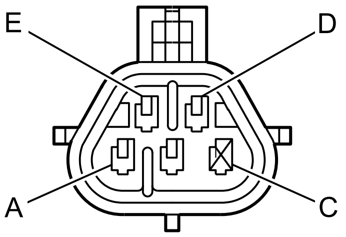
Terminal Part Information

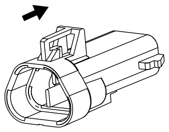
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-3 (GY)	J-38125-12A	12045773	2	E	1

B52F Heated Oxygen Sensor - Bank 2 Sensor 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	1671	Heated Oxygen Sensor (HO2S) Low Signal – Bank 2 Sensor 2	I	-
B	0.8	PU	1670	Heated Oxygen Sensor (HO2S) High Signal – Bank 2 Sensor 2	I	-
C	-	-	-	Not Occupied	-	-
D	0.8	PK	1539	Ignition Voltage	I	-
E	0.8	OG/WH	3223	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank 2 Sensor 2	I	-

B52F Heated Oxygen Sensor - Bank 2 Sensor 2 (Cutaway with L20 or L96)





Connector Part Information

Harness Type: Heated Oxygen Sensor Jumper

OEM Connector: 12092839

Service Connector: 13585848

Description: 5-Way M Metri-Pack 150 Series (BK)

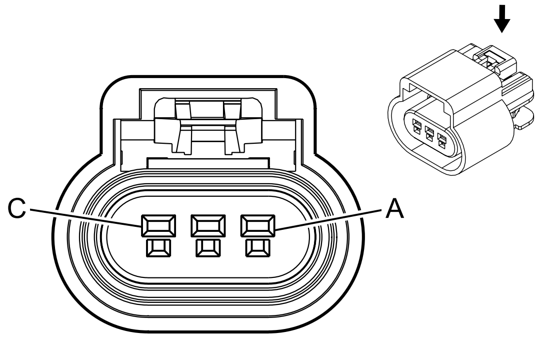
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 13585848	J-35616-3 (GY)	J-38125-12A	12045773	2	E	1

B52F Heated Oxygen Sensor - Bank 2 Sensor 2 (Cutaway with L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	1671	Heated Oxygen Sensor (HO2S) Low Signal – Bank 2 Sensor 2	I	-
B	0.8	PU	1670	Heated Oxygen Sensor (HO2S) High Signal – Bank 2 Sensor 2	I	-
C	-	-	-	Not Occupied	-	-
D	0.8	PK	1539	Ignition Voltage	I	-
E	0.8	OG/WH	3223	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank 2 Sensor 2	I	-

B55 Hood Ajar Switch (BTV)



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 15326808

Service Connector: 13580871

Description: 3-Way F GT 150 Series, Sealed (BK)

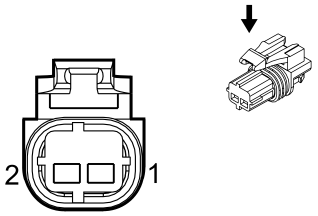
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 13580871	J-35616-4A (PU)	J-38125-553	12110847	4	E	5

B55 Hood Ajar Switch (BTV)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	PK/BK	109	Hood Ajar Switch Signal	I	-
B	0.5	PU	5531	Hood Closed Switch Signal	I	-
C	0.5	BK	250	Ground	I	-

B59 Front Impact Sensor



Connector Part Information

Harness Type: Front Impact Sensor Jumper

OEM Connector: 15356716

Service Connector: 15850146

Description: 2-Way F GT 150 Series, Sealed (YE)

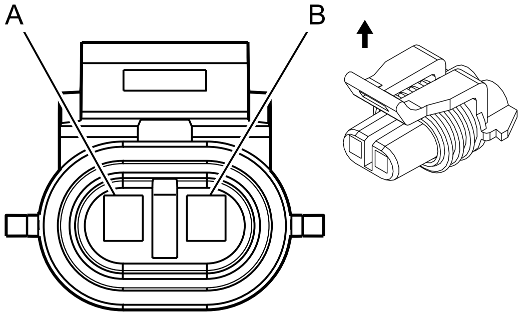
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575413	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B59 Front Impact Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU/WH	6619	Low Reference	I	-
2	0.5	BN/WH	6618	Discriminating Sensor Signal	I	-

B5LF Wheel Speed Sensor - Left Front



Connector Part Information

Harness Type: Chassis

OEM Connector: 12052641

Service Connector: 12102747

Description: 2-Way F Metri-Pack 150 Series (BK)

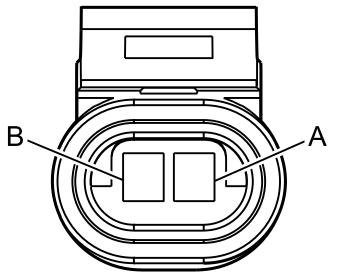
Terminal Part Information

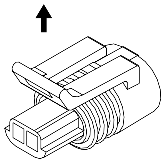
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575419	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

B5LF Wheel Speed Sensor - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	YE	873	Low Reference	I	-
B	0.5	L-BU	830	Left Front Wheel Speed Sensor Signal	I	-

B5LR Wheel Speed Sensor - Left Rear (JL4)





Connector Part Information

Harness Type: Left Rear Wheel Speed Sensor Jumper

OEM Connector: 12162193

Service Connector: 88987993

Description: 2-Way F Metri-Pack 150.2 Series, Sealed (BK)

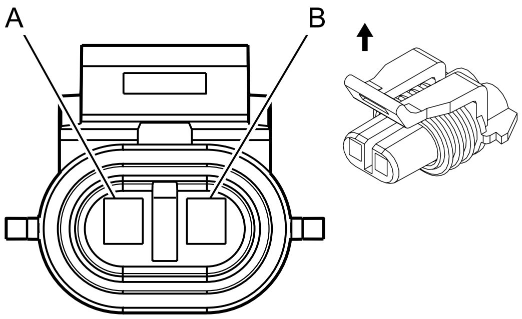
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-14 (GN)	J-38125-559	12124075	5	E	C

B5LR Wheel Speed Sensor - Left Rear (JL4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BK	885	Low Reference	I	-
B	0.5	RD	884	Left Rear Wheel Speed Sensor Signal	I	-

B5RF Wheel Speed Sensor - Right Front



Connector Part Information

Harness Type: Chassis

OEM Connector: 12052641

Service Connector: 12102747

Description: 2-Way F Metri-Pack 150 Series (BK)

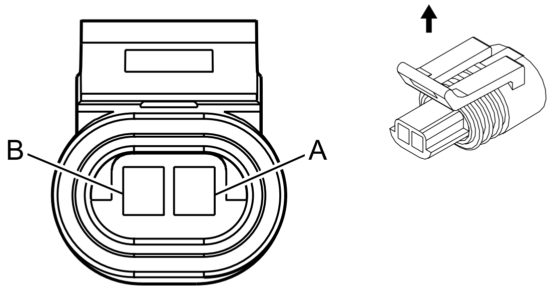
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575419	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

B5RF Wheel Speed Sensor - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	TN	833	Low Reference	I	-
B	0.5	D-GN	872	Right Front Wheel Speed Sensor Signal	I	-

B5RR Wheel Speed Sensor - Right Rear (JL4)



Connector Part Information

Harness Type: Right Rear Wheel Speed Sensor Jumper

OEM Connector: 12162193

Service Connector: 88987993

Description: 2-Way F Metri-Pack 150.2 Series, Sealed (BK)

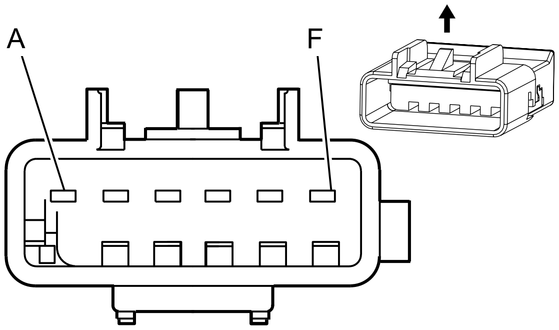
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-14 (GN)	J-38125-559	12124075	5	E	C

B5RR Wheel Speed Sensor - Right Rear (JL4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BN	883	Low Reference	I	-
B	0.5	WH	882	Right Rear Wheel Speed Sensor Signal	I	-

B60 Passenger Presence Sensor (Light Duty without YF7)



Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 15332142

Service Connector: 89046638

Description: 6-Way M GT 150 Series, Sealed (BK)

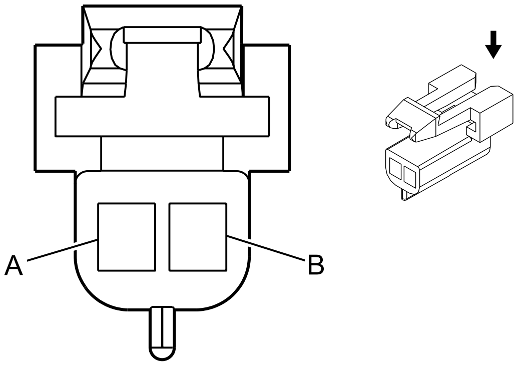
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B60 Passenger Presence Sensor (Light Duty without YF7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	RD/WH	3440	Battery Positive Voltage	I	-
B	-	-	-	Not Occupied	-	-
C	0.5	D-GN	5060	Low Speed GMLAN Serial Data	I	-
D	0.5	BK/WH	1751	Ground	I	-
E–F	-	-	-	Not Occupied	-	-

B62D Seat Position Sensor - Driver (Light Duty)



Connector Part Information

Harness Type: Driver Seat

OEM Connector: 12052832

Service Connector: 13583033

Description: 2-Way F Metri-Pack 150 Series (BK)

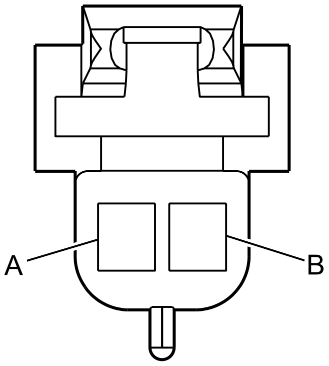
Terminal Part Information

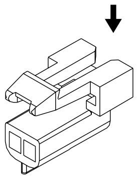
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness– See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B62D Seat Position Sensor - Driver (Light Duty)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-GN	5055	Seat Position Sensor– Left– Signal	I	-
B	0.5	PK	5057	Low Reference	I	-

B62P Seat Position Sensor - Passenger (Light Duty)





Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 12052832

Service Connector: 13583033

Description: 2-Way F Metri-Pack 150 Series (BK)

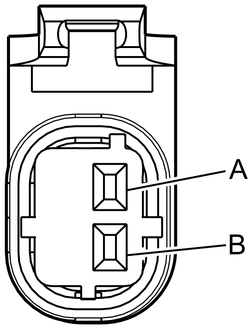
Terminal Part Information

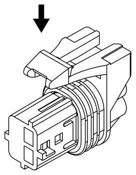
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness– See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B62P Seat Position Sensor - Passenger (Light Duty)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-BU	5056	Seat Position Sensor– Right– Signal	I	-
B	0.5	PK	5017	Low Reference	I	-

B63LF Side Impact Sensor - Left Front (ASF)





Connector Part Information

Harness Type: Driver Side Impact Sensor Jumper

OEM Connector: 15356726

Service Connector: 15306362

Description: 2-Way F GT 150 Series, Sealed (YE)

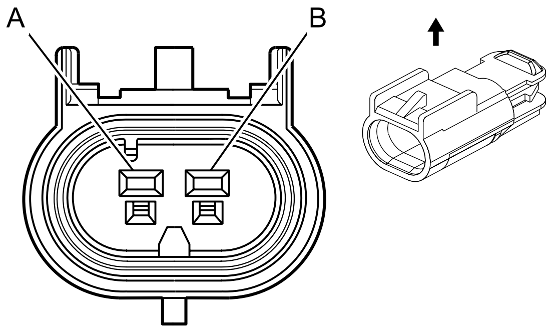
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575413	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B63LF Side Impact Sensor - Left Front (ASF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	PU/WH	6628	Low Reference	I	-
B	0.5	WH	2132	Side Impact Sensing Module– Left– Signal	I	-

B63LR Side Impact Sensor - Left Rear (Passenger with ASF)



Connector Part Information

Harness Type: Body

OEM Connector: 13510099

Service Connector: 13580103

Description: 2-Way M GT 150 Series, Sealed (BK)

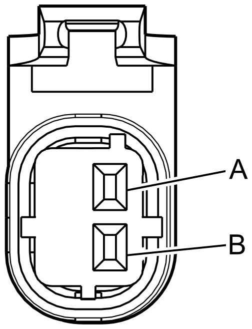
Terminal Part Information

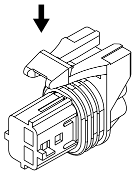
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575398	J-35616-3 (GY)	J-38125-553	15326269	19	E	4

B63LR Side Impact Sensor - Left Rear (Passenger with ASF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-GN/BK	6623	Low Reference	I	-
B	0.5	L-BU	6622	Left Rear Side Impact Sensing Module Signal	I	-

B63RF Side Impact Sensor - Right Front (ASF)





Connector Part Information

Harness Type: Passenger Side Impact Sensor Jumper

OEM Connector: 15356726

Service Connector: 15306362

Description: 2-Way F GT 150 Sealed 4.0 (YE)

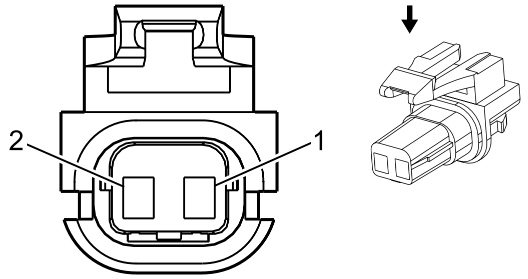
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575413	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B63RF Side Impact Sensor - Right Front (ASF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	PU/WH	6628	Low Reference	I	-
B	0.5	WH	2132	Side Impact Sensing Module– Right– Signal	I	-

B63RR Side Impact Sensor - Right Rear (Passenger with ASF with E24)



Connector Part Information

Harness Type: Right Rear Side Impact Sensor Jumper

OEM Connector: 15356717

Service Connector: 88953273

Description: 2-Way F GT 150 Series, Sealed (YE)

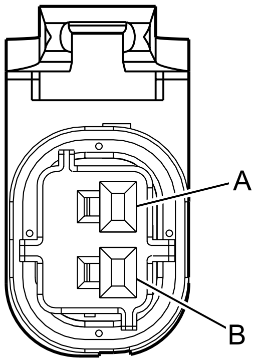
Terminal Part Information

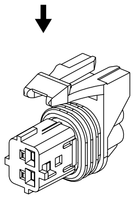
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575413	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B63RR Side Impact Sensor - Right Rear (Passenger with ASF with E24)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-BU/WH	6626	Right Rear Side Impact Sensing Module Signal	I	-
2	0.5	PK/BK	6627	Low Reference	I	-

B63RR Side Impact Sensor - Right Rear (Passenger with ASF with YA2)





Connector Part Information

Harness Type: Right Rear Side Impact Sensor Jumper

OEM Connector: 15356727

Service Connector: 88953129

Description: 2-Way F GT 150 Series, Sealed (YE)

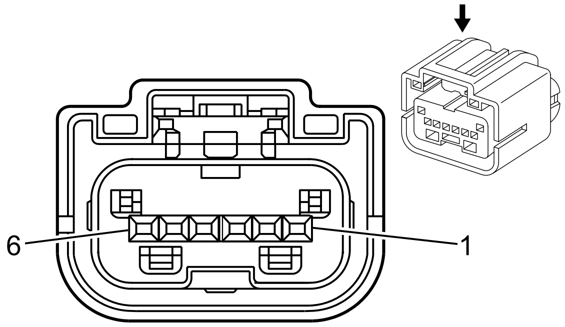
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575413	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B63RR Side Impact Sensor - Right Rear (Passenger with ASF with YA2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	PK/BK	6627	Low Reference	I	-
B	0.5	L-BU/WH	6626	Right Rear Side Impact Sensing Module Signal	I	-

B64 Rollover Sensor (ASF)



Connector Part Information

Harness Type: Body

OEM Connector: 13551672

Service Connector: 19149297

Description: 6-Way F 64 Series, Sealed (YE)

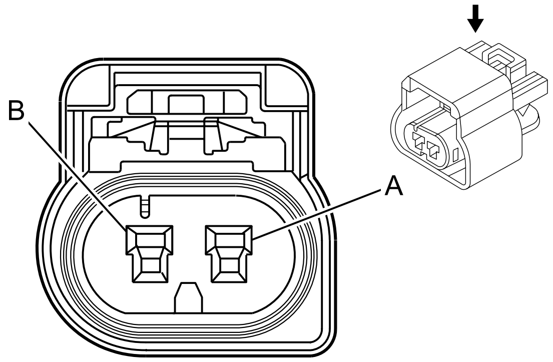
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-64B (L-BU)	J-38125-553	Pins: 1, 5–6 – 8100-3427	22	Pin 3 – J	J

B64 Rollover Sensor (ASF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/WH	3440	Battery Positive Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	-
4	-	-	-	Not Occupied	-	-
5	0.5	YE/BK	5229	Rollover Sensor High Signal	I	-
6	0.5	BK/WH	1751	Ground	I	-

B68A Knock Sensor 1 (LC8, LMF, LU3, L20 or L96)



Connector Part Information

Harness Type: Engine

OEM Connector: 15374222

Service Connector: 13580877

Description: 2-Way F GT 150 Sealed (NA)

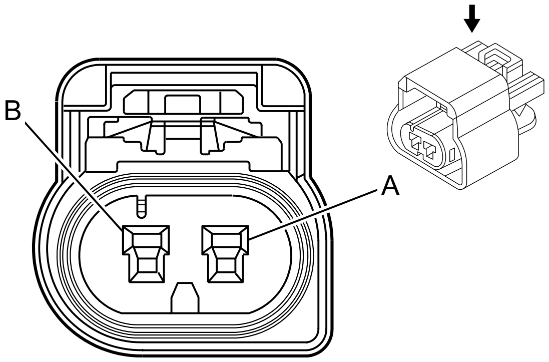
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575396	J-35616-2A (GY)	J-38125-553	15326427	5	2	1

B68A Knock Sensor 1 (LC8, LMF, LU3, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-BU	496	Knock Sensor (KS) 1 Signal	I	-
B	0.8	GY	1716	Knock Sensor (KS) 1 Signal	I	-

B68B Knock Sensor 2 (LC8, LMF, LU3, L20 or L96)



Connector Part Information

Harness Type: Engine

OEM Connector: 15374222

Service Connector: 13580877

Description: 2-Way F GT 150 Sealed (NA)

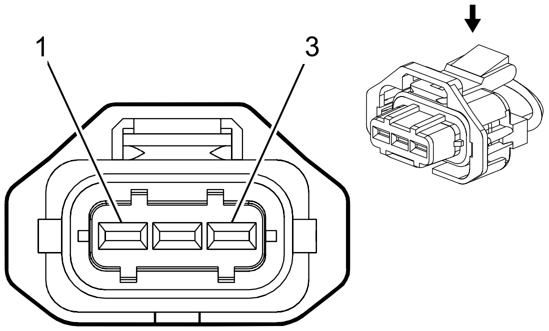
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575396	J-35616-2A (GY)	J-38125-553	15326427	5	2	1

B68B Knock Sensor 2 (LC8, LMF, LU3, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	L-BU	1876	Knock Sensor (KS) 2 Signal	I	-
B	0.8	GY	2303	Knock Sensor (KS) 2 Signal	I	-

B74 Manifold Absolute Pressure Sensor (LC8, LMF, LU3, L20 or L96)



Connector Part Information

Harness Type: Engine

OEM Connector: 15397338 (L20, L96 or LMF)

OEM Connector: 15365614 (LU3)

Service Connector: 13585845 (L20, L96 or LMF)

Service Connector: 13585850 (LU3)

Description: 3-Way F 2.8 Timer Series, Sealed (BK)

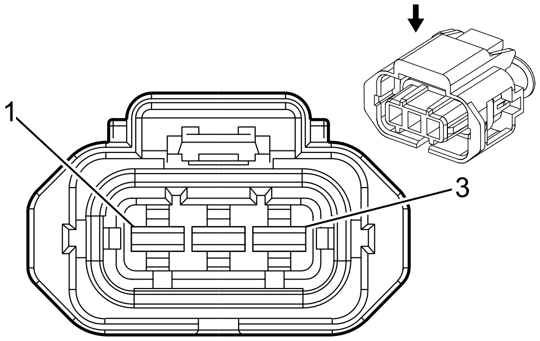
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness - See Part Catalog	J-35616-35 (VT)	J-38125-36	4-964286-1	16	E	1

B74 Manifold Absolute Pressure Sensor (LC8, LMF, LU3, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	GY	2704	5-Volt Reference	I	-
2	0.8	OG/BK	469	Low Reference	I	-
3	0.8	L-GN	432	Manifold Absolute Pressure (MAP) Sensor Signal	I	-

B74 Manifold Absolute Pressure Sensor (LGH)



Connector Part Information

Harness Type: Engine

OEM Connector: 15397338

Service Connector: 13585845

Description: 3-Way F 2.8 Timer Series, Sealed (BK)

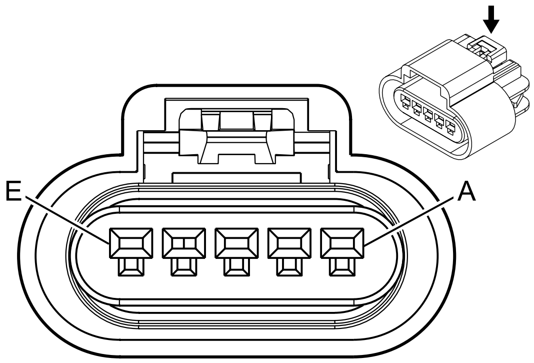
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				Pending	Pending	Pending	Pending

B74 Manifold Absolute Pressure Sensor (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY	2704	5 Volt Reference	I	-
2	0.5	OG/BK	469	Low Reference	I	-
3	0.5	L-GN	432	Manifold Absolute Pressure Sensor Signal	I	-

B75B Mass Air Flow/Intake Air Temperature Sensor (LC8, LMF, LU3, L20 or L96)



Connector Part Information

Harness Type: Engine

OEM Connector: 13519051

Service Connector: 13585858

Description: 5-Way F GT 150 Series, Sealed (BK)

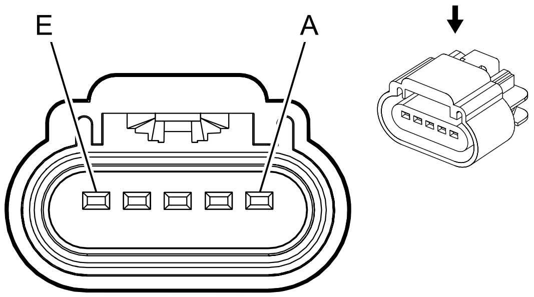
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327113	J-35616-2A (GY)	J-38125-553	12191819	8	2	1

B75B Mass Air Flow/Intake Air Temperature Sensor (LC8, LMF, LU3, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	YE	492	Mass Air Flow (MAF) Sensor Signal	I	-
B	0.8	PK	1939	Ignition Voltage	I	-
C	0.8	BK/WH	1551	Ground	I	-
D	0.8	TN	472	Intake Air Temperature (IAT) Sensor Signal	I	-
E	0.8	TN	2760	Low Reference	I	-

B75B Mass Air Flow/Intake Air Temperature Sensor (LGH)



Connector Part Information

Harness Type: Engine

OEM Connector: 13519912

Service Connector: 13586116

Description: 5-Way F 150 GT Series, Sealed (D-GY)

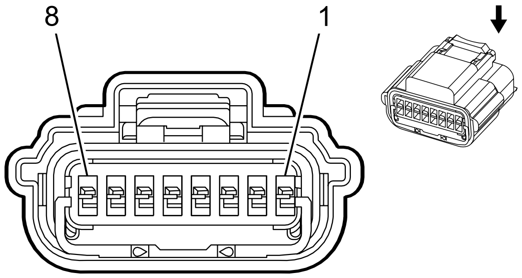
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12191819	8	E	1
II				12191819	8	2	1

B75B Mass Air Flow/Intake Air Temperature Sensor (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-BU	6289	Intake Air Temperature (IAT) Sensor Signal	I	-
B	0.5	L-BU	6288	Low Reference	I	-
C	0.5	YE	492	Mass Air Flow (MAF) Sensor Signal	I	-
D	0.8	PK	1939	Ignition Voltage	II	-
E	0.5	GY/BK	2931	Low Reference	I	-

B75C Multifunction Intake Air Sensor



Connector Part Information

Harness Type: Engine

OEM Connector: 13504800

Service Connector: 13583440

Description: 8-Way F 064 Series, Sealed (BK)

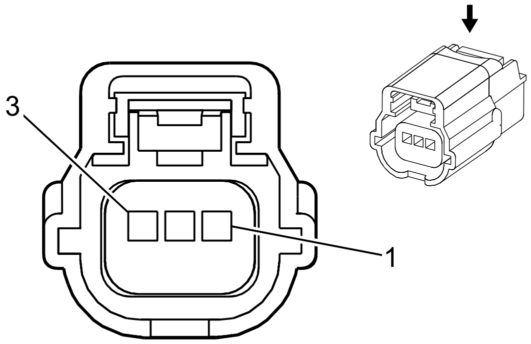
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	13575867	J-35616-64B (L-BU)	J-38125-215A

B75C Multifunction Intake Air Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	-	-	-	Not Occupied	-	-
3	-	-	-	Not Occupied	-	-
4	-	-	-	Not Occupied	-	-
5	0.75	PK	1839	Powertrain Main Relay Fused Supply (3)	I	-
6	-	-	-	Not Occupied	-	-
7	0.5	BK/WH	1551	Ground	I	-
8	0.5	L-BU	7564	Humidity Sensor Signal	I	-

B78E Rear Object Sensor - Left Middle (UD7)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13525738

Service Connector: 88988337

Description: 3-Way F USCAR 064 Series, Sealed (BK)

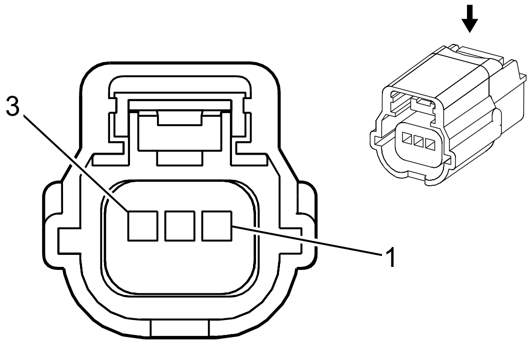
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578912	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B78E Rear Object Sensor - Left Middle (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU	2374	Object Sensor Supply Voltage	I	-
2	0.5	GY	2379	Object Sensor Low Reference	I	-
3	0.5	OG	2376	Left Rear Middle Object Sensor Signal	I	-

B78F Rear Object Sensor - Right Middle (UD7)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13525738

Service Connector: 88988337

Description: 3-Way F USCAR 064 Series, Sealed (BK)

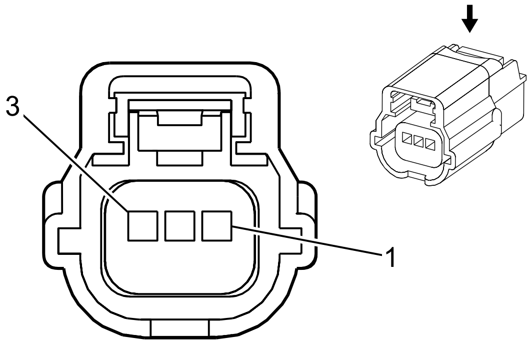
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578912	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B78F Rear Object Sensor - Right Middle (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU	2374	Object Sensor Supply Voltage	I	-
2	0.5	GY	2379	Object Sensor Low Reference	I	-
3	0.5	D-GN	2377	Right Rear Middle Object Sensor Signal	I	-

B78G Rear Object Sensor - Left Outer (UD7)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13525738

Service Connector: 88988337

Description: 3-Way F USCAR 064 Series, Sealed (BK)

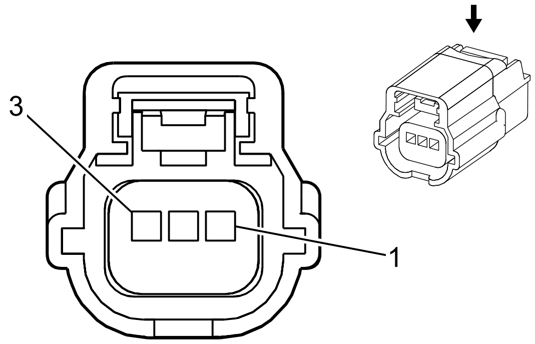
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578912	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B78G Rear Object Sensor - Left Outer (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU	2374	Object Sensor Supply Voltage	I	-
2	0.5	GY	2379	Object Sensor Low Reference	I	-
3	0.5	YE	2375	Left Rear Corner Object Sensor Signal	I	-

B78H Rear Object Sensor - Right Outer (UD7)



Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 13525738

Service Connector: 88988337

Description: 3-Way F USCAR 064 Series, Sealed (BK)

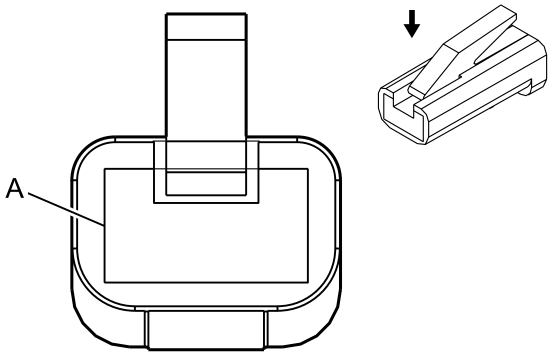
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578912	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

B78H Rear Object Sensor - Right Outer (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-BU	2374	Object Sensor Supply Voltage	I	-
2	0.5	GY	2379	Object Sensor Low Reference	I	-
3	0.5	PU	2378	Right Rear Corner Object Sensor Signal	I	-

B80 Park Brake Switch



Connector Part Information

Harness Type: Park Brake Jumper

OEM Connector: 12004267

Service Connector: 12102561

Description: 1-Way F 56 Series Lock Type (BK)

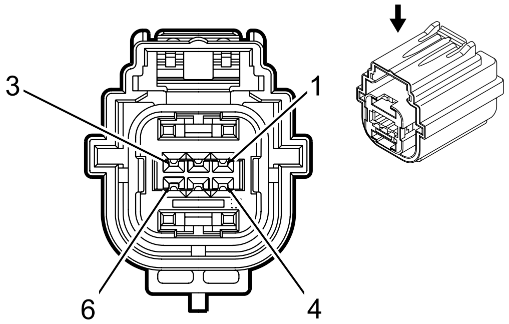
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 12102561	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

B80 Park Brake Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-BU	1134	Park Brake Switch Signal	I	-

B87 Rearview Camera (UVC)



Connector Part Information

Harness Type: Rearview Camera Jumper

OEM Connector: 13629704

Service Connector: Service by Harness – See Part Catalog

Description: 6-Way F 0.64 Series, Sealed (GY)

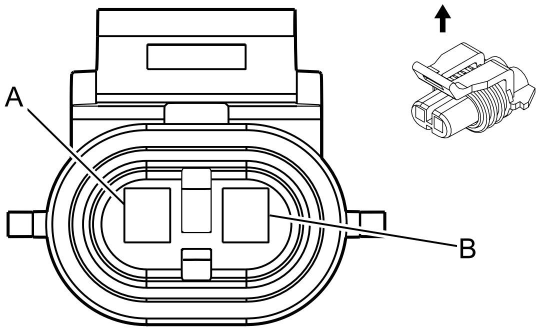
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575845	J-35616-64B (L-BU)	J-38125-215A	Not Stocked in Kit	NA	P	P

B87 Rearview Camera (UVC)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	7641	Camera Rear Vision Signal +	I	-
2	0.5	GY	6799	Camera Shield	I	-
3	0.5	L-GN	24	Backup Lamp Supply Voltage	I	-
4	0.5	L-BU	7642	Camera Rear Vision Signal (-)	I	-
5	0.5	BK/WH	351	Signal Ground	I	-
6	0.5	PK	239	Run/Crank Ignition 1 Voltage	I	-

B9 Ambient Air Temperature Sensor



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 12052642

Service Connector: 12101856

Description: 2-Way F Metri-Pack 150 Series, Sealed (L-GN)

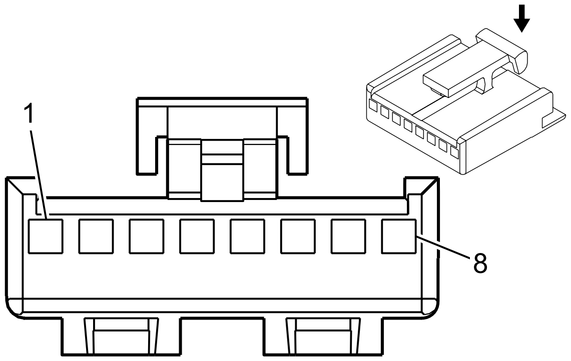
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575419	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

B9 Ambient Air Temperature Sensor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	D-GN/WH	636	Ambient Air Temperature Sensor Signal	I	-
B	0.5	YE	61	Low Reference	I	-

B99 Steering Wheel Angle Sensor (JL4)



Connector Part Information

Harness Type: Steering Column

OEM Connector: 12052444

Service Connector: 12101874

Description: 8-Way F Micro-Pack 100 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578899	J-35616-6 (BN)	J-38125-13A	12146447	3	E	C

B99 Steering Wheel Angle Sensor (JL4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	GY	6044	5-Volt Reference	I	-
2	0.35	OG/BK	6045	Low Reference	I	-
3	0.35	YE	6046	Steering Angle Sensor Phase A	I	-
4	0.35	D-BU	6047	Steering Angle Sensor Phase B	I	-
5	0.35	TN	6048	Steering Angle Sensor Phase C	I	-
6	0.35	L-GN	6043	Steering Angle Sensor Signal	I	-
7	0.35	PK	2239	Ignition Voltage	I	-
8	0.35	BK/WH	351	Ground	I	-

C1 Battery

Connector Part Information

Harness Type: Battery Negative

OEM Connector: 12129465 (except LU3)

OEM Connector: 12160209 (LU3)

Service Connector: Service by Harness – See Part Catalog

Description: Battery Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

C1 Battery

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
–	19	BK	50	Ground	I	-
	32	BK	50	Ground		

C1B Battery - Auxiliary

Connector Part Information

Harness Type: Battery Positive

OEM Connector: 12129465

Service Connector: Service by Harness – See Part Catalog

Description: Battery Ring Terminal

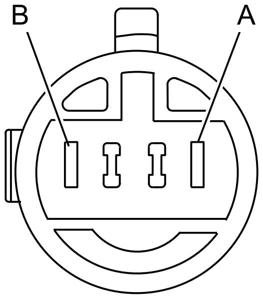
Terminal Part Information

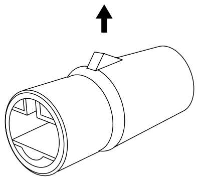
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

C1B Battery - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
+	32	RD	1	Battery Positive Voltage	I	-
	8	RD	1	Battery Positive Voltage		
	8	RD	1	Battery Positive Voltage		

E11 Fuel Heater (LGH)





Connector Part Information

Harness: Fuel Pump

OEM: 7318-3324-30

Service: Service by Harness - See Part Catalog

Description: 2-Way F (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				7114-1050	4	E	A

E11 Fuel Heater (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.85	BK	150	Ground	I	-
B	0.85	PK	2239	Ignition Voltage	I	-

E12A Glow Plug 1 (LGH)

Connector Part Information

Harness Type: Engine

OEM Connector: 8917970

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

E12A Glow Plug 1 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2	PU	1581	Glow Plug 1 Control	I	-

E12B Glow Plug 2 (LGH)

Connector Part Information

Harness Type: Engine

OEM Connector: 8917970

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

E12B Glow Plug 2 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2	PU/WH	1582	Glow Plug 2 Control	I	-

E12C Glow Plug 3 (LGH)

Connector Part Information

Harness Type: Engine

OEM Connector: 8917970

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

E12C Glow Plug 3 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2	YE	1583	Glow Plug 3 Control	I	-

E12D Glow Plug 4 (LGH)

Connector Part Information

Harness Type: Engine

OEM Connector: 8917970

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

E12D Glow Plug 4 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2	WH/YE	1584	Glow Plug 4 Control	I	-

E12E Glow Plug 5 (LGH)

Connector Part Information

Harness Type: Engine

OEM Connector: 8917970

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

E12E Glow Plug 5 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2	D-GN	1585	Glow Plug 5 Control	I	-

E12F Glow Plug 6 (LGH)

Connector Part Information

Harness Type: Engine

OEM Connector: 8917970

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

E12F Glow Plug 6 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2	D-GN/WH	1586	Glow Plug 6 Control	I	-

E12G Glow Plug 7 (LGH)

Connector Part Information

Harness Type: Engine

OEM Connector: 8917970

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

E12G Glow Plug 7 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2	PK	1587	Glow Plug 7 Control	I	-

E12H Glow Plug 8 (LGH)

Connector Part Information

Harness Type: Engine

OEM Connector: 8917970

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

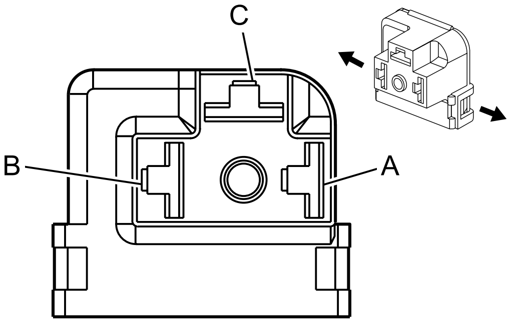
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

E12H Glow Plug 8 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2	PK/WH	1588	Glow Plug 8 Control	I	-

E13L Headlamp - Left (Sealed)



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 12034372

Service Connector: 12117369

Description: 3-Way F Metri-Pack 800 Series (BK)

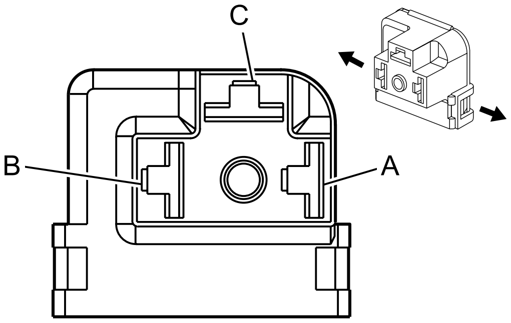
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-44 (YE)	J-38125-558	12020634	18	C	A

E13L Headlamp - Left (Sealed)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BK	250	Ground	I	-
B	0.5	D-GN/WH	711	Left Headlamp High Beam Control	I	-
C	0.5	YE	712	Left Headlamp Low Beam Control	I	-

E13R Headlamp - Right (Sealed)



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 12034372

Service Connector: 12117369

Description: 3-Way F Metri-Pack 800 Series (BK)

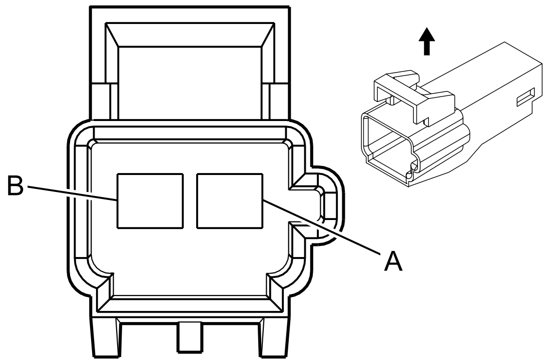
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-44 (YE)	J-38125-558	12020634	18	C	A

E13R Headlamp - Right (Sealed)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	650	Ground	I	-
B	0.8	L-GN/BK	311	Right Headlamp High Beam Control	I	-
C	0.8	TN/WH	312	Right Headlamp Low Beam Control	I	-

E18L Rear Defogger Grid - Left (C49)



Connector Part Information

Harness Type: Rear Window Defogger Jumper

OEM Connector: 12129156

Service Connector: 12129156

Description: 2-Way M Metri-Pack 280 Series (GY)

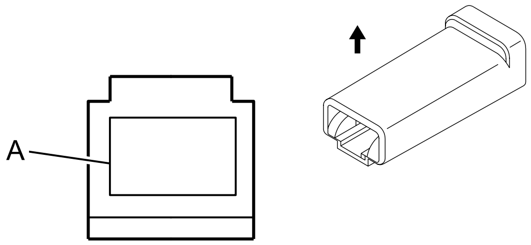
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-5 (PU)	J-38125-11A	12084586	4	Pin A– B	G

E18L Rear Defogger Grid - Left (C49)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	5	PU	293	Rear Defog Element Control	I	-
B	3	BK	850	Ground	I	-

E18L Rear Defogger Grid - Left X1 (C49 with A12)



Connector Part Information

Harness Type: Rear Window Defogger Jumper

OEM Connector: 12103107

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F Positive Lock MK I 250 Series (BK)

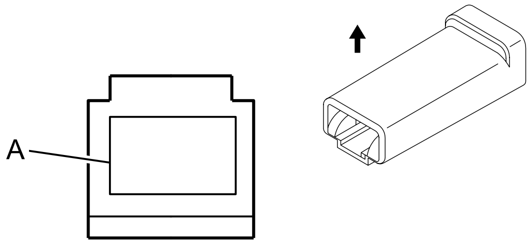
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-42 (RD)	J-38125-12A	154717-3	24	Not Available	Not Available

E18L Rear Defogger Grid - Left X1 (C49 with A12)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	5	PU	293	Rear Defog Element Control	I	-

E18L Rear Defogger Grid - Left X2 (C49 with A12)



Connector Part Information

Harness Type: Rear Window Defogger Jumper

OEM Connector: 12103107

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F Positive Lock MK I 250 Series (BK)

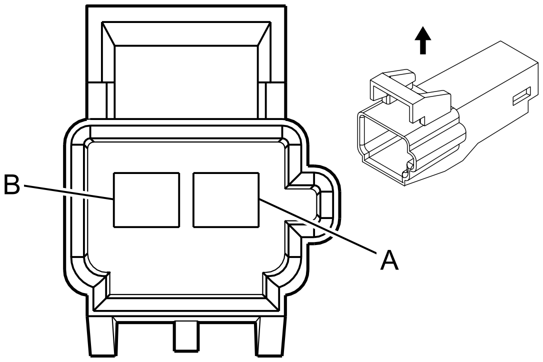
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-42 (RD)	J-38125-12A	154717-3	24	A	B

E18L Rear Defogger Grid - Left X2 (C49 with A12)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	BK	850	Ground	I	-

E18R Rear Defogger Grid - Right (C49 with A18)



Connector Part Information

Harness Type: Rear Window Defogger Jumper

OEM Connector: 12129156

Service Connector: 12129156

Description: 2-Way M Metri-Pack 280 Series (GY)

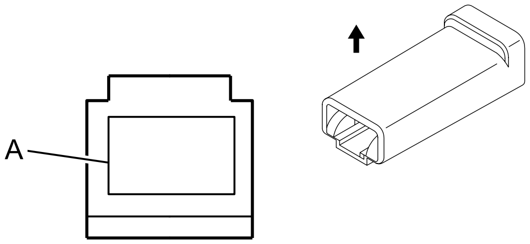
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-5 (PU)	J-38125-11A	12084586	4	Pin A– B	G

E18R Rear Defogger Grid - Right (C49 with A18)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	5	PU	293	Rear Defog Element Control	I	-
B	3	BK	1050	Ground	I	-

E18R Rear Defogger Grid - Right X1 (C49 with A12)



Connector Part Information

Harness Type: Rear Window Defogger Jumper

OEM Connector: 12103107

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F Positive Lock MK I 250 Series (BK)

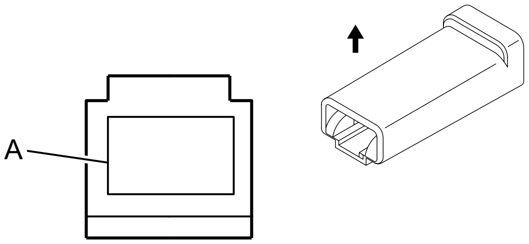
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-42 (RD)	J-38125-12A	154717-3	24	Not Available	Not Available

E18R Rear Defogger Grid - Right X1 (C49 with A12)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	5	PU	293	Rear Defog Element Control	I	-

E18R Rear Defogger Grid - Right X2 (C49 with A12)



Connector Part Information

Harness Type: Rear Window Defogger Jumper

OEM Connector: 12103107

Service Connector: Service by Harness - See Part Catalog

Description: 1-Way F Positive Lock MK I 250 Series (BK)

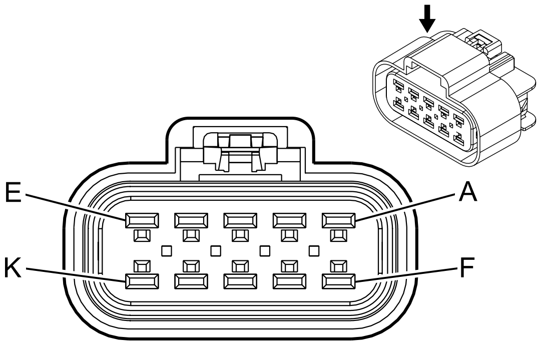
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-42 (RD)	J-38125-12A	154717-3	24	A	B

E18R Rear Defogger Grid - Right X2 (C49 with A12)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	BK	1050	Ground	I	-

E19 Coolant Heater (K08)



Connector Part Information

Harness Type: Chassis

OEM Connector: 15326660

Service Connector: 88986262

Description: 10-Way F GT 280 5.8 Series, Sealed (BK)

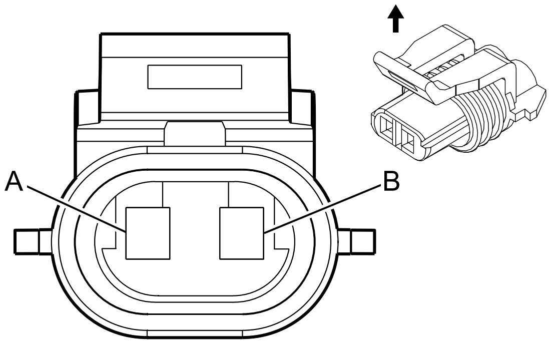
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: A, H – 13575392	J-35616-4A (PU)	J-38125-553	Pins: A, H – 15304720	19	Pins: A, H – 4	5

E19 Coolant Heater (K08)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2	RD/WH	1740	Battery Positive Voltage	I	-
B	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	I	-
C	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
D	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	I	-
E	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
F	0.8	D-BU/L-GN	7077	Coolant Heater – Fuel Pump Control	I	-
G	-	-	-	Not Occupied	-	-
H	2	BK	150	Ground	I	-
J	0.5	L-BU	5986	Serial Data Communication Enable	I	-
K	-	-	-	Not Occupied	-	-

E22 Underhood Lamp



Connector Part Information

Harness Type: Underhood Lamp

OEM Connector: 12052644

Service Connector: 15306302

Description: 2-Way F Metri-Pack 150 Series, Sealed (GY)

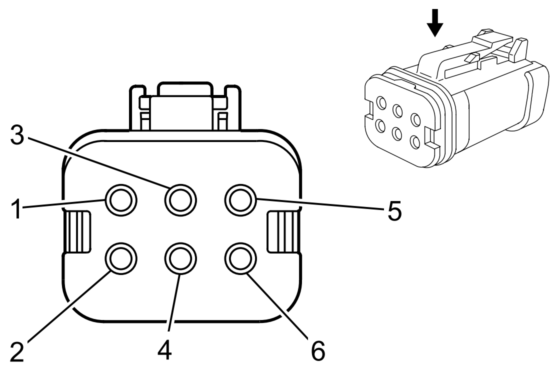
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575419	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

E22 Underhood Lamp

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	OG	1732	Courtesy Lamp Control	I	-
B	0.5	BK	1250	Ground	I	-

E24 Intake Air Heater X1 (LGH)



Connector Part Information

Harness: Engine

OEM: DT16-6S-KP01

Service: 13576409

Description: 6-Way F Sealed (GN)

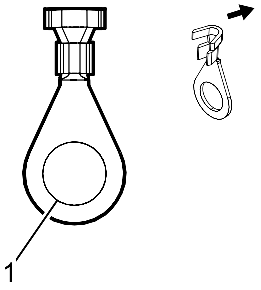
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				Pending	Pending	Pending	Pending

E24 Intake Air Heater X1 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK	2923	IAH Temperature Signal	I	-
2	0.5	OG/BK	2921	IAH Command 1	I	-
3	0.5	YE	2920	IAH Command 2	I	-
4	0.5	D-GN	2924	IAH Current Signal	I	-
5	0.5	TN	2925	IAH Voltage Signal	I	-
6	0.5	PU	2922	IAH Feedback Signal	I	-

E24 Intake Air Heater X2 (LGH)



Connector Part Information

Harness Type: Auxiliary Battery

OEM Connector: 12146366

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

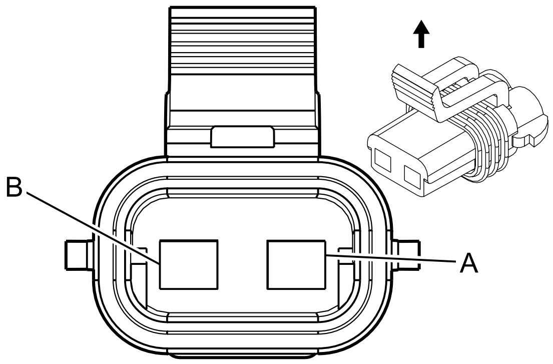
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

E24 Intake Air Heater X2 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	19	RD	1	Battery Positive Voltage	I	-

E2LF Side Marker Lamp - Left Front



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 15300027

Service Connector: 12101855

Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

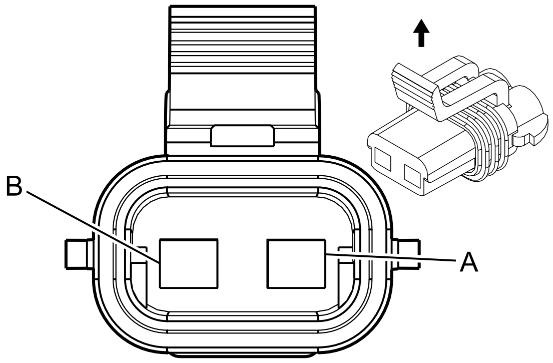
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575418	J-35616-4A (PU)	J-38125-11A	12077411	2	2	5

E2LF Side Marker Lamp - Left Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BN	2309	Front Park Lamps Control	I	-
B	0.5	BK	250	Ground	I	-

E2RF Side Marker Lamp - Right Front



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 15300027

Service Connector: 12101855

Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

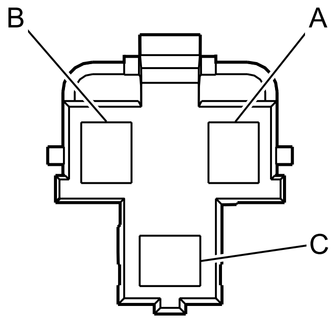
Terminal Part Information

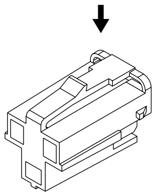
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575418	J-35616-4A (PU)	J-38125-11A	12077411	2	2	5

E2RF Side Marker Lamp - Right Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BN	2309	Front Park Lamps Control	I	-
B	0.5	BK	650	Ground	I	-

E32 Cigarette Lighter Receptacle





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12176836

Service Connector: 19257374

Description: 3-Way F Metri-Pack 280 Series (GY)

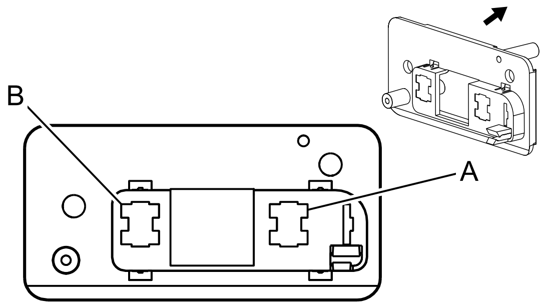
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575721	J-35616-4A (PU)	J-38125-553	12110844	4	C	A

E32 Cigarette Lighter Receptacle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	RD/WH	640	Battery Positive Voltage	I	-
B	-	-	-	Not Occupied	-	-
C	0.8	BK	550	Ground	I	-

E36AH Dome Lamp (Cargo)



Connector Part Information

Harness Type: Dome Lamp

OEM Connector: 15528758

Service Connector: Service by Harness– See Part Catalog

Description: 2-Way F (NA)

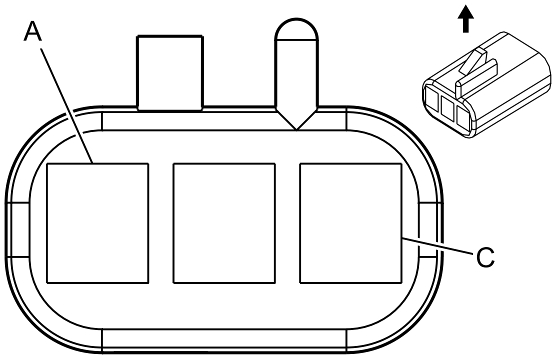
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Not Available	Service by Connector Assembly– 15528758	Service by Connector Assembly– 15528758	Not Available	Not Available

E36AH Dome Lamp (Cargo)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-BU/WH	149	Courtesy Lamp Control	I	-
B	0.5	BK	850	Ground	I	-

E37F Dome/Reading Lamps - Front



Connector Part Information

Harness Type: Front Headliner

OEM Connector: 12047781

Service Connector: 12101864

Description: 3-Way F Metri-Pack 150 Series (BK)

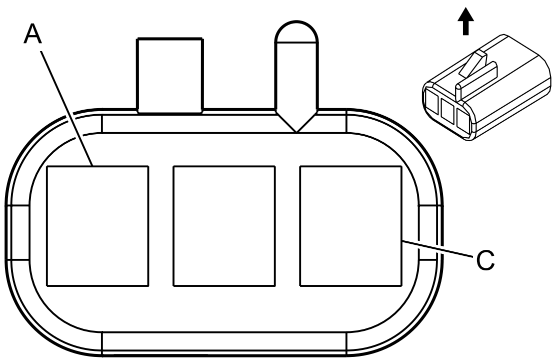
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	5	E	C
II	Pending	J-35616-14 (GN)	J-38125-12A	15326030	2	E	A

E37F Dome/Reading Lamps - Front

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	D-BU/WH	149	Courtesy Lamp Control	I	-
B	1	BK	1850	Ground	II	-
C	0.8	OG	1732	Courtesy Lamp Control	II	-

E37M Dome/Reading Lamps - Middle



Connector Part Information

Harness Type: Headliner

OEM Connector: 12047781

Service Connector: 12101864

Description: 3-Way F Metri-Pack 150 Series (BK)

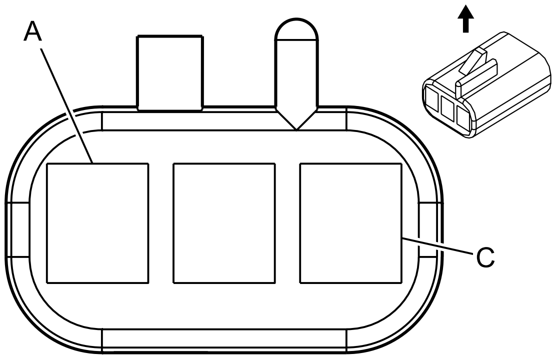
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: A, C–Pending	J-35616-14 (GN)	J-38125-12A	Pins: A, C–15326030	2	Pins: A, C– E	A

E37M Dome/Reading Lamps - Middle

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-BU/WH	149	Courtesy Lamp Control	I	-
B	0.5	BK	1050	Ground	I	-
C	0.8	OG	1732	Courtesy Lamp Control	I	-

E37R Dome/Reading Lamps - Rear



Connector Part Information

Harness Type: Headliner

OEM Connector: 12047781

Service Connector: 12101864

Description: 3-Way F Metri-Pack 150 Series (BK)

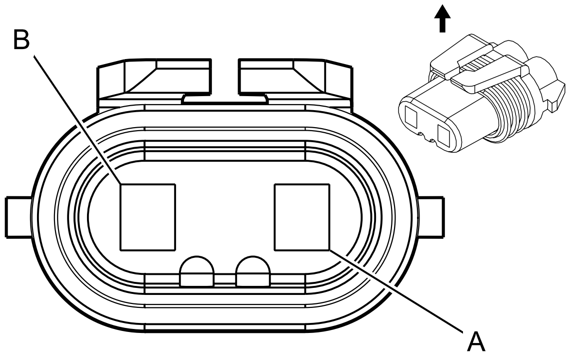
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: A, C– Pending	J-35616-14 (GN)	J-38125-12A	Pins: A, C– 15326030	2	Pins: A, C– E	A

E37R Dome/Reading Lamps - Rear

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-BU/WH	149	Courtesy Lamp Control	I	-
B	0.5	BK	1050	Ground	I	-
C	0.8	OG	1732	Courtesy Lamp Control	I	-

E4E Headlamp - Left High Beam (Composite)



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 12059183

Service Connector: 12101898

Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

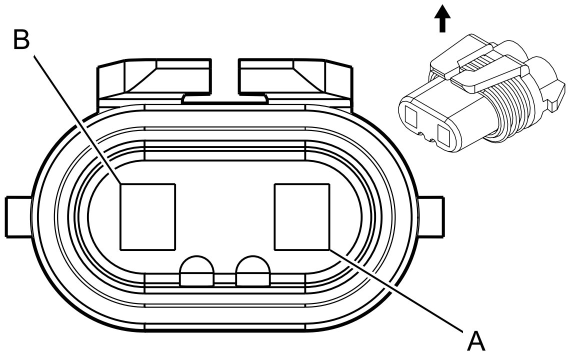
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A–13575418	J-35616-4A (PU)	J-38125-11A	12077411	2	2	5

E4E Headlamp - Left High Beam (Composite)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	D-GN/WH	711	Left Headlamp High Beam Control	I	-
B	0.8	BK	250	Ground	I	-

E4F Headlamp - Right High Beam (Composite)



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 12059183

Service Connector: 12101898

Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

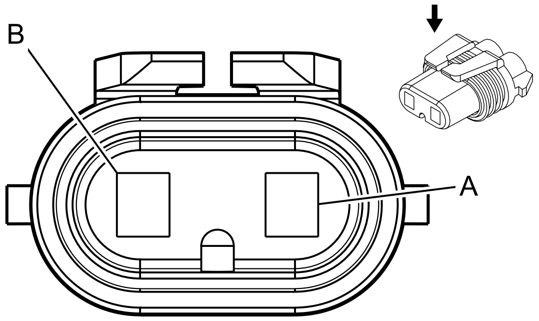
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12077411	2	2	5

E4F Headlamp - Right High Beam (Composite)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	L-GN/BK	311	Right Headlamp High Beam Control	I	-
B	0.8	BK	650	Ground	I	-

E4G Headlamp - Left Low Beam (Composite)



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 12059181

Service Connector: 12101897

Description: 2-Way F Metri-Pack 280 Series, Sealed (GY)

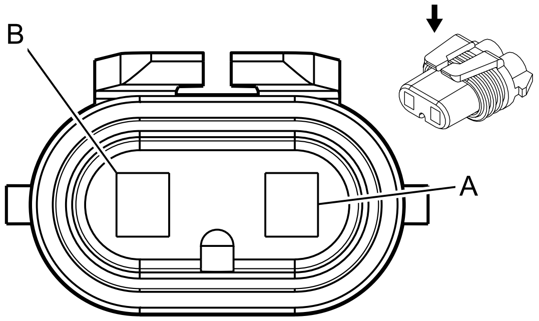
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A–13575418	J-35616-4A (PU)	J-38125-11A	12077411	2	2	5

E4G Headlamp - Left Low Beam (Composite)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	YE	712	Left Headlamp Low Beam Control	I	-
B	0.8	BK	250	Ground	I	-

E4H Headlamp - Right Low Beam (Composite)



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 12059181

Service Connector: 12101897

Description: 2-Way F Metri-Pack 280 Series, Sealed (GY)

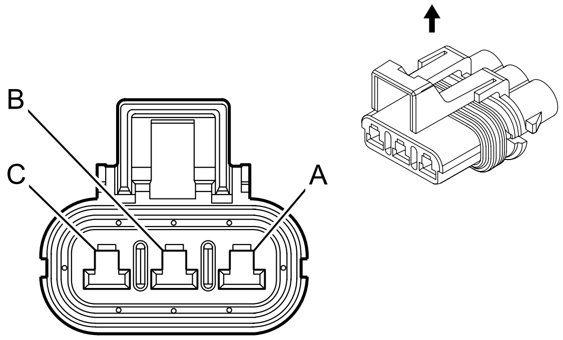
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12077411	2	2	5

E4H Headlamp - Right Low Beam (Composite)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	TN/WH	312	Right Headlamp Low Beam Control	I	-
B	0.8	BK	650	Ground	I	-

E4N Park/Turn Signal Lamp - Left



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 12040977

Service Connector: 12085492

Description: 3-Way F Metri-Pack 280 Sealed (BK)

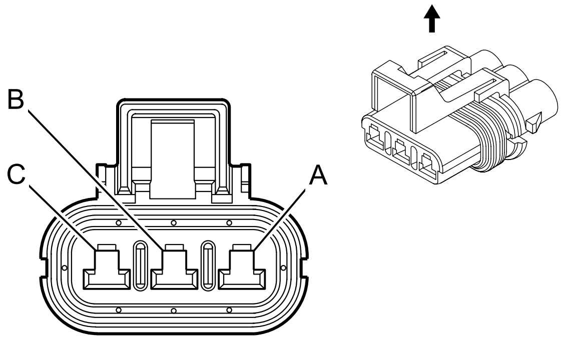
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A– Pending	J-35616-4A (PU)	J-38125-11A	12077411	2	2	5

E4N Park/Turn Signal Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	L-BU/WH	1314	Left Front Turn Signal Lamp Control	I	-
B	0.5	BN	2309	Front Park Lamps Control	I	-
C	0.5	BK	250	Ground	I	-

E4P Park/Turn Signal Lamp - Right



Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 12040977

Service Connector: 12085492

Description: 3-Way F Metri-Pack 280 Sealed (BK)

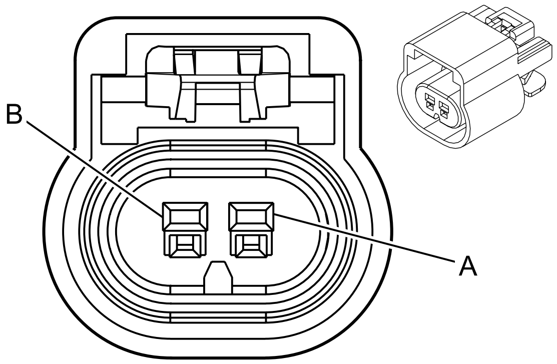
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A– Pending	J-35616-4A (PU)	J-38125-11A	12077411	2	2	5

E4P Park/Turn Signal Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-BU/WH	1315	Right Front Turn Signal Lamp Control	I	-
B	0.5	BN	2309	Front Park Lamps Control	I	-
C	0.5	BK	650	Ground	I	-

E52 Reductant Line Heater (LGH)



Connector Part Information

Harness Type: Reductant Jumper

OEM Connector: 13510085

Service Connector: 13580114

Description: 2-Way F GT 150 Series (BK)

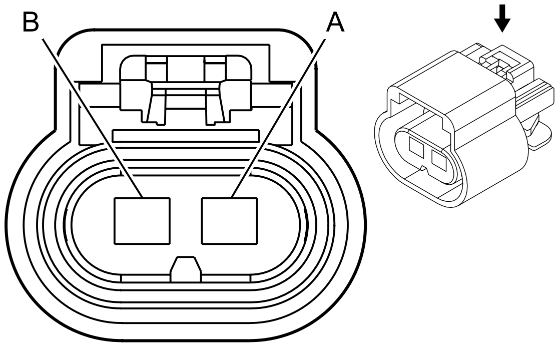
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12191819	8	2	1

E52 Reductant Line Heater (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	BK	317	Ground	I	-
B	1	PU/WH	327	DEF Pump Heater Control	I	-

E53 Reductant Tank Heater (LGH)



Connector Part Information

Harness: Reductant Jumper

OEM: 15326679

Service: 88988942

Description: 2-Way F GT 280 Series, Sealed (BK)

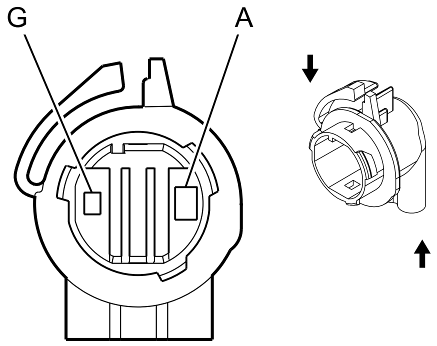
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15304719	19	2	5

E53 Reductant Tank Heater (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	BK	217	Ground	I	-
B	1	D-GN/WH	227	DEF Reservoir Heater Control	I	-

E5A Backup Lamp - Left



Connector Part Information

Harness Type: Left Tail Lamp

OEM Connector: 16530668

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way Lamp Socket Wedge Base W3 Right Angle Sealed (L-GY)

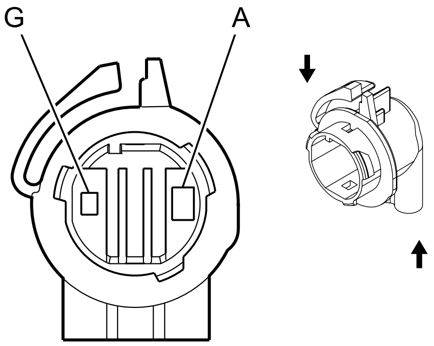
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness - See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E5A Backup Lamp - Left

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	L-GN	24	Backup Lamp Supply Voltage	I	-
G	0.8	BK	850	Ground	I	-

E5B Backup Lamp - Right



Connector Part Information

Harness Type: Right Tail Lamp

OEM Connector: 16530668

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way Lamp Socket Wedge Base W3 Right Angle Sealed (L-GY)

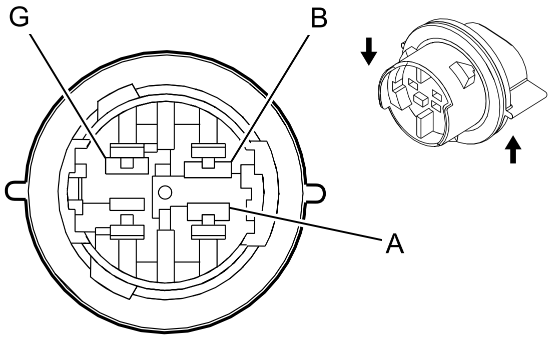
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness - See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E5B Backup Lamp - Right

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	L-GN	24	Backup Lamp Supply Voltage	I	-
G	0.8	BK	1050	Ground	I	-

E5S Tail/Stop and Turn Signal Lamp - Left (Passenger or Cargo)



Connector Part Information

Harness Type: Left Tail Lamp

OEM Connector: 16530873

Service Connector: Service by Harness– See Part Catalog

Description: 3-Way F (BK)

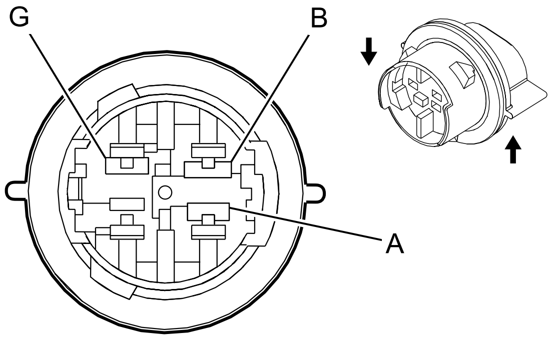
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness - See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E5S Tail/Stop and Turn Signal Lamp - Left (Passenger or Cargo)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	YE	618	Left Rear Turn Signal Lamp Control	I	-
B	1	BN	2509	Left Rear Park Lamps Control	I	-
G	1 1	BK BK	850 850	Ground Ground	I	-

E5T Tail/Stop and Turn Signal Lamp - Right (Passenger or Cargo)



Connector Part Information

Harness Type: Right Tail Lamp

OEM Connector: 16530873

Service Connector: Service by Harness– See Part Catalog

Description: 3-Way F (BK)

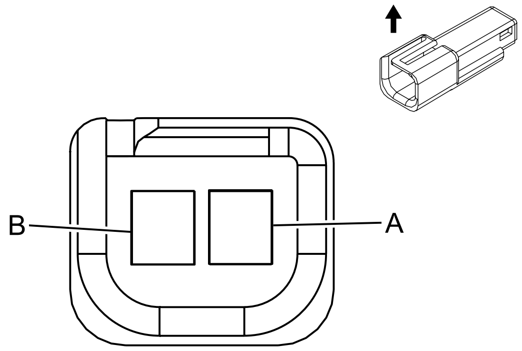
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness - See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E5T Tail/Stop and Turn Signal Lamp - Right (Passenger or Cargo)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	YE	619	Right Rear Turn Signal Lamp Control	I	-
B	1	BN	2609	Right Rear Park Lamps Control	I	-
G	1 1	BK BK	1050 1050	Ground Ground	I	-

E6 Center High Mounted Stop Lamp (Passenger or Cargo)



Connector Part Information

Harness Type: Center High Mounted Stop Lamp

OEM Connector: 12047663

Service Connector: 12085481

Description: 2-Way M Metri-Pack 150 Series (BK)

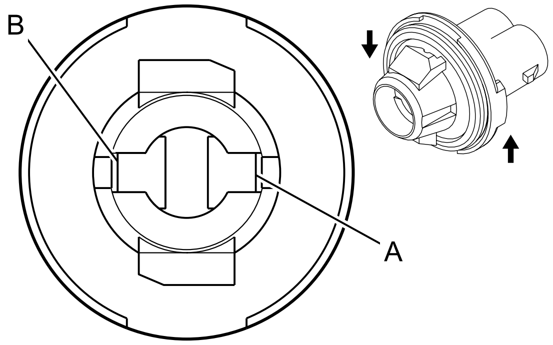
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 12047663	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

E6 Center High Mounted Stop Lamp (Passenger or Cargo)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	L-BU	1320	CHMSL Supply Voltage	I	-
B	0.8	BK	850	Ground	I	-

E7 License Plate Lamp (Passenger or Cargo)



Connector Part Information

Harness Type: Right Rear Cargo Door

OEM Connector: 15324946

Service Connector: 88986416

Description: 2-Way F Lamp Socket Wedge Base W2 (D-GY)

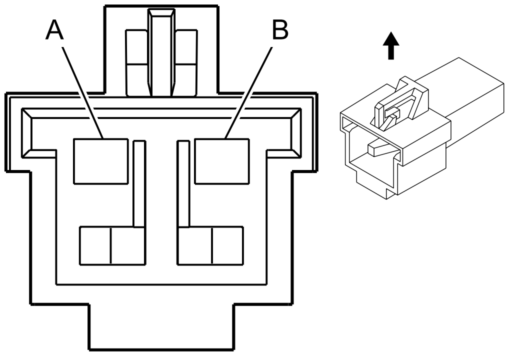
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	J-38125-11A	12124471	5	2	3

E7 License Plate Lamp (Passenger or Cargo)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BN	2509	Left Rear Park Lamps Control	I	-
B	0.5	BK	1050	Ground	I	-

F101 Passenger Instrument Panel Air Bag (Heavy Duty)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15358601

Service Connector: 15306300

Description: 2-Way M Metri-Pack 280 , Pull To Seat Series (YE)

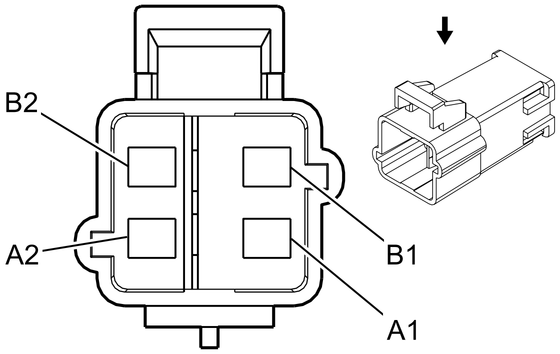
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-5 (PU)	J-38125-12A	12066337	18	E	A

F101 Passenger Instrument Panel Air Bag (Heavy Duty)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	YE	3025	Instrument Panel Module– Stage 1– High Control	I	-
B	0.5	OG	3024	Instrument Panel Module– Stage 1– Low Control	I	-

F101 Passenger Instrument Panel Air Bag (Light Duty)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15336476

Service Connector: 88987998

Description: 4-Way M Metri-Pack 280 Series (YE)

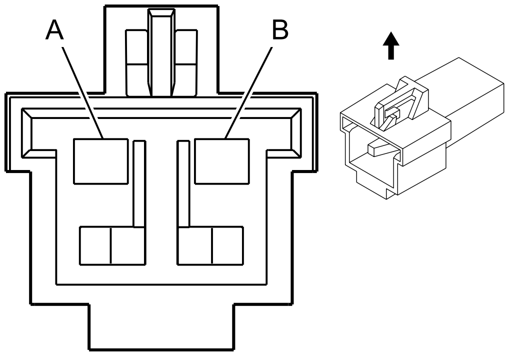
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575715	J-35616-5 (PU)	J-38125-11A	12034047	2	E	A

F101 Passenger Instrument Panel Air Bag (Light Duty)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.5	YE	3025	Instrument Panel Module– Stage 1– High Control	I	-
A2	0.5	OG	3024	Instrument Panel Module– Stage 1– Low Control	I	-
B1	0.5	GY	3027	Instrument Panel Module– Stage 2– High Control	I	-
B2	0.5	PU	3026	Instrument Panel Module– Stage 2– Low Control	I	-

F105LF Roof Rail Air Bag - Left Front (ASF)



Connector Part Information

Harness Type: Body

OEM Connector: 15358601

Service Connector: 15306300

Description: 2-Way M Metri-Pack 280 , Pull To Seat Series (YE)

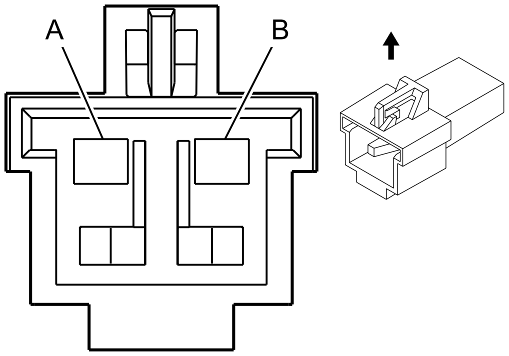
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-5 (PU)	J-38125-12A	12066337	18	E	A

F105LF Roof Rail Air Bag - Left Front (ASF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	PK	5020	Roof Rail Module– Left– Low Control	I	-
B	0.5	PU/WH	5019	Roof Rail Module– Left– High Control	I	-

F105RF Roof Rail Air Bag - Right Front (ASF)



Connector Part Information

Harness Type: Body

OEM Connector: 15358601

Service Connector: 15306300

Description: 2-Way M Metri-Pack 280 , Pull To Seat Series (YE)

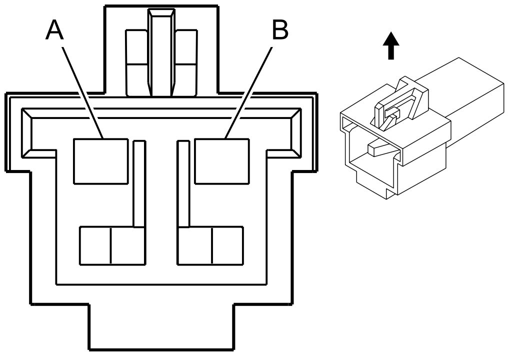
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-5 (PU)	J-38125-12A	12066337	18	E	A

F105RF Roof Rail Air Bag - Right Front (ASF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	WH/BK	5022	Roof Rail Module– Right– Low Control	I	-
B	0.5	YE/BK	5021	Roof Rail Module– Right– High Control	I	-

F105RR Roof Rail Air Bag - Right Rear (ASF with YA2)



Connector Part Information

Harness Type: Body

OEM Connector: 15358601

Service Connector: 15306300

Description: 2-Way M Metri-Pack 280 , Pull To Seat Series (YE)

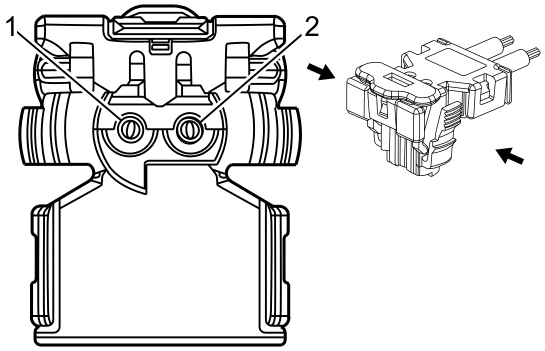
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-5 (PU)	J-38125-12A	12066337	18	E	A

F105RR Roof Rail Air Bag - Right Rear (ASF with YA2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	TN/BK	7016	Roof Rail Module– Right Rear Low Control	I	-
B	0.5	L-BU	7015	Roof Rail Module– Right Rear High Control	I	-

F107 Steering Wheel Air Bag (Heavy Duty)



Connector Part Information

Harness Type: Steering Wheel

OEM Connector: 54560235

Service Connector: Service by Harness– See Part Catalog

Description: 2-Way F FFB90-4 Type C (YE)

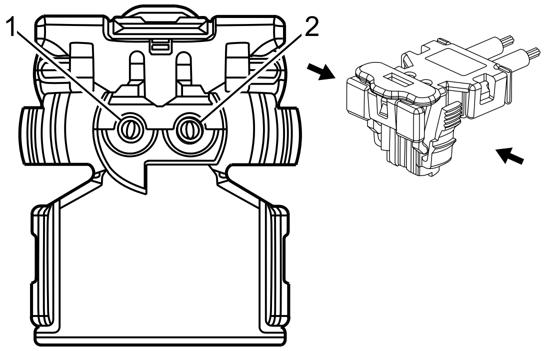
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness - See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F107 Steering Wheel Air Bag (Heavy Duty)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	TN	3021	Steering Wheel Module– Stage 1– High Control	I	-
2	0.5	BN	3020	Steering Wheel Module– Stage 1– Low Control	I	-

F107 Steering Wheel Air Bag X1 (Light Duty)



Connector Part Information

Harness Type: Steering Wheel

OEM Connector: 54560236

Service Connector: Service by Harness– See Part Catalog

Description: 2-Way F FFB90-4 Type B (GY)

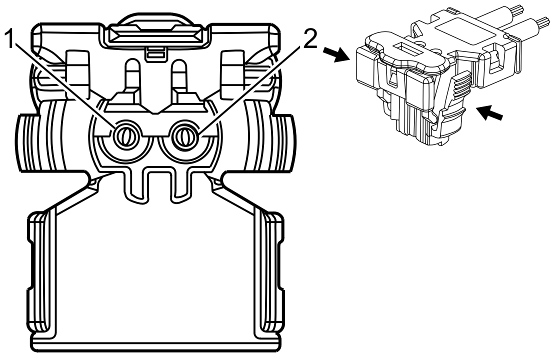
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness - See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F107 Steering Wheel Air Bag X1 (Light Duty)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	TN	3021	Steering Wheel Module– Stage 1– High Control	I	-
2	0.5	BN	3020	Steering Wheel Module– Stage 1– Low Control	I	-

F107 Steering Wheel Air Bag X2 (Light Duty)



Connector Part Information

Harness Type: Steering Wheel

OEM Connector: 54560222

Service Connector: Service by Harness– See Part Catalog

Description: 2-Way F FFB90-4 Type G (PU)

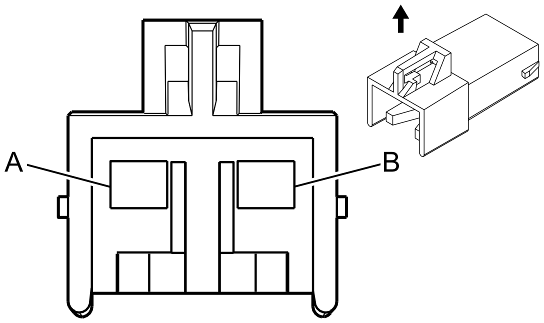
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness - See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

F107 Steering Wheel Air Bag X2 (Light Duty)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	WH	3023	Steering Wheel Module– Stage 2– High Control	I	-
2	0.5	PK	3022	Steering Wheel Module– Stage 2– Low Control	I	-

F109D Seat Belt Buckle Pretensioner - Driver (Light Duty)



Connector Part Information

Harness Type: Body

OEM Connector: 12110288

Service Connector: 12126040

Description: 2-Way M Metri-Pack 280 Series (YE)

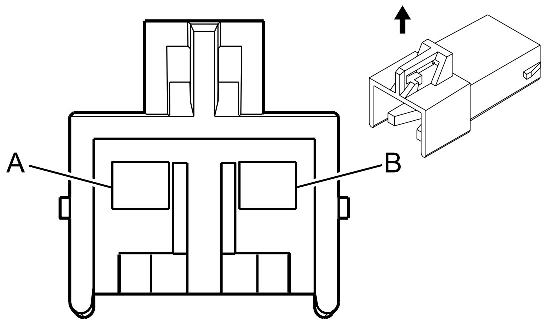
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575715	J-35616-5 (PU)	J-38125-11A	12034047	2	E	A

F109D Seat Belt Buckle Pretensioner - Driver (Light Duty)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	TN/WH	2118	Seat Belt Pretensioner– Left– High Control	I	-
B	0.5	OG/BK	2119	Seat Belt Pretensioner– Left– Low Control	I	-

F109P Seat Belt Buckle Pretensioner - Passenger (Light Duty)



Connector Part Information

Harness Type: Body

OEM Connector: 12110288

Service Connector: 12126040

Description: 2-Way M Metri-Pack 280 Series (YE)

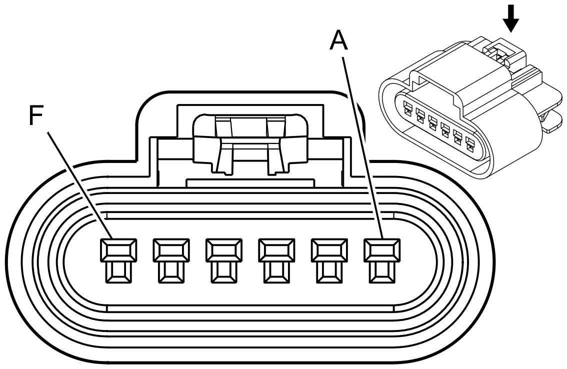
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575715	J-35616-5 (PU)	J-38125-11A	12034047	2	E	A

F109P Seat Belt Buckle Pretensioner - Passenger (Light Duty)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	L-GN	2116	Seat Belt Pretensioner– Right– High Control	I	-
B	0.5	OG	2117	Seat Belt Pretensioner– Right– Low Control	I	-

G10 Cooling Fan Motor (LGH)



Connector Part Information

Harness: Fan Jumper

OEM: 15326829

Service: 88988944

Description: 6-Way F GT 150 Series Sealed (BK)

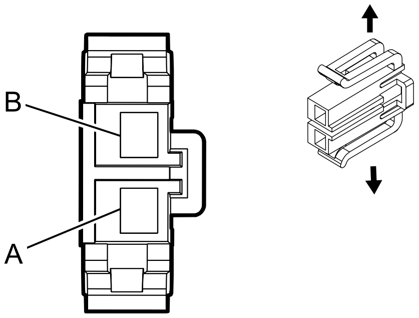
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				See Terminal Repair Kit	See Terminal Repair Kit	See Terminal Repair Kit	See Terminal Repair Kit

G10 Cooling Fan Motor (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BK	1250	Ground	I	-
B	0.5	WH	2368	Cooling Fan Clutch Control	I	-
C	0.5	BN/WH	6141	Low Reference	I	-
D	0.5	D-BU	2364	Cooling Fan Speed Signal	I	-
E	0.5	GY	2365	Low Reference	I	-
F	-	-	-	Not Occupied	-	-

G12 Fuel Pump (KO7 with UFM)



Connector Part Information

Harness Type: LPG Tank

OEM Connector: 15304812

Service Connector: Service by Harness — See Part Catalog

Description: 2-Way F Metri-Pack 280 Series (BK)

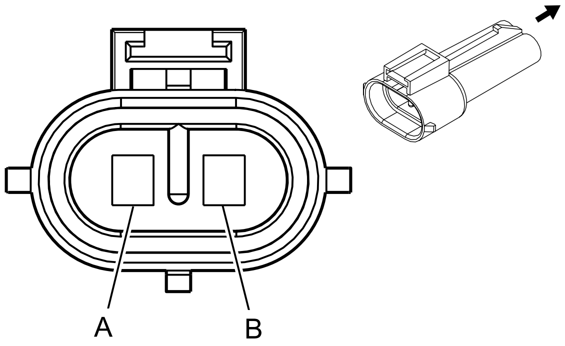
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-4A (PU)	J-38125-11A	12015858	4	F	G

G12 Fuel Pump (KO7 with UFM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	GY	—	Fuel Pump Control	I	-
B	3	BK	—	Ground	I	-

G12 Fuel Pump (LGH)



Connector Part Information

Harness Type: Fuel Pump

OEM Connector: 12059450

Service Connector: 13580868

Description: 2-Way M Metri-Pack 280 Series, Sealed (BK)

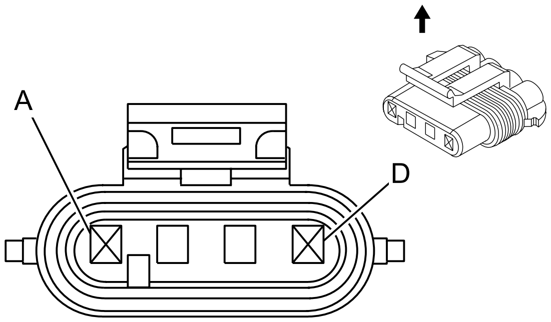
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				See Terminal Repair Kit	See Terminal Repair Kit	See Terminal Repair Kit	See Terminal Repair Kit

G12 Fuel Pump (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	GY	120	Fuel Pump Control	I	-
B	2	BK	150	Ground	I	-

G13 Generator X1 (LC8, LGH, L20 or L96)



Connector Part Information

Harness: Engine

OEM: 15355066

Service: 15306329

Description: 2-Way F Metri-Pack 150 Series Sealed (BG)

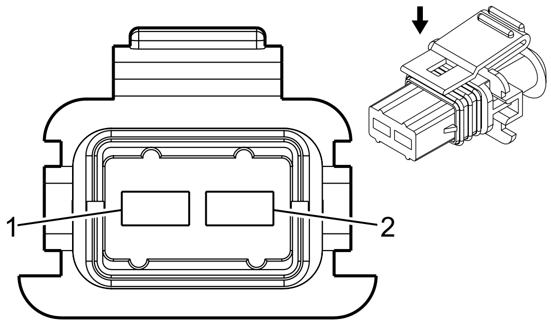
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12048074	2	E	1

G13 Generator X1 (LC8, LGH, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	-	-	-	Not Occupied	-	-
B	0.5 0.8	OG OG	225 225	Generator Turn On Signal Generator Turn On Signal	I	L20 or L96 LGH
C	0.5 0.8	GY GY	23 23	Generator Field Duty Cycle Signal Generator Field Duty Cycle Signal	I	L20 or L96 LGH
D	-	-	-	Not Occupied	-	-

G13 Generator X1 (LU3 or LMF)



Connector Part Information

Harness Type: Engine

OEM Connector: 12186308

Service Connector: 13585849

Description: 2-Way F Junior Power Timer Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13581346	J-35616-35 (VT)	J-38125-36	4-964286-1	16	E	1

G13 Generator X1 (LU3 or LMF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG	225	Generator Turn On Signal	I	-
2	0.5	GY	23	Generator Field Duty Cycle Signal	I	-

G13 Generator X2

Connector Part Information

Harness Type: Battery Positive

OEM Connector: 15355282

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

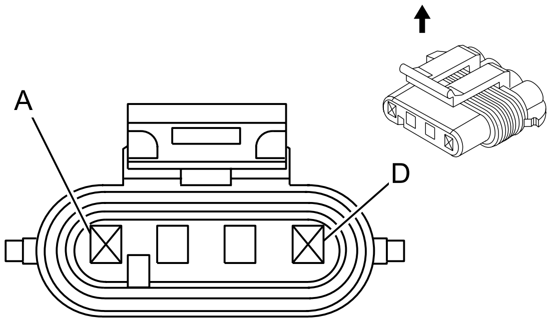
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

G13 Generator X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	19	RD	1	Battery Positive Voltage	I	-

G13E Generator - Auxiliary X1 (KD9 with YF2)



Connector Part Information

Harness Type: Engine Chassis

OEM Connector: 15355066

Service Connector: 15306329

Description: 2-Way F Metri-Pack 150 Series, Sealed (BG)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

G13E Generator - Auxiliary X1 (KD9 with YF2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	-	-	-	Not Occupied	-	-
B	0.8	BN/WH	7076	Charge Indicator Control	I	-
C–D	-	-	-	Not Occupied	-	-

G13E Generator - Auxiliary X2 (KD9 with YF2)

Connector Part Information

Harness Type: Auxiliary Battery Positive

OEM Connector: 15355282

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

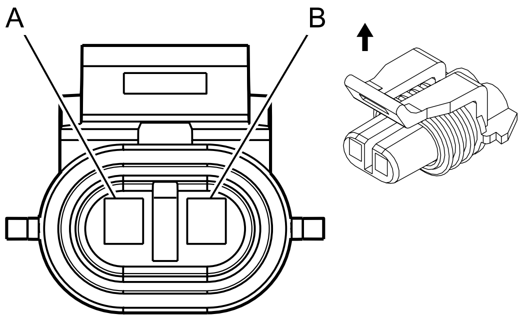
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

G13E Generator - Auxiliary X2 (KD9 with YF2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	19	RD	1	Battery Positive Voltage	I	-

G24 Windshield Washer Pump



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12052641

Service Connector: 12102747

Description: 2-Way F Metri-Pack 150 Series (BK)

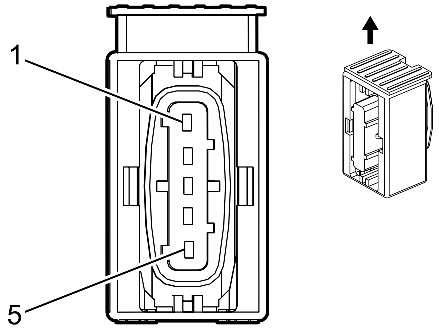
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575419	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

G24 Windshield Washer Pump

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	OG	228	Windshield Washer Pump Control	I	-
B	0.5	BK	350	Ground	I	-

G33 Reductant Pump (LGH)



Connector Part Information

Harness: Reductant Jumper

OEM: 1928404276

Service: Service by Harness - See Part Catalog

Description: 5−Way F 2.8 Junior Power Timer Series, Sealed (BK)

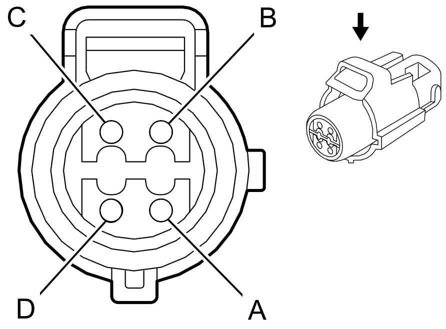
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				4-964273-1	15	E	1
II				4-964286-1	16	E	1

G33 Reductant Pump (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	BK	417	Ground	I	-
2	1	GY/WH	427	DEF Pump Heater Control	I	-
3	0.5	D-BU	437	DEF Smart Pump Control	-	-
4	0.5	TN	447	DEF Smart Pump Low Reference	-	-
5	0.5	GY	457	DEF Smart Pump Supply Voltage	-	-

G34 Evaporative Emission System Leak Detection Pump (KO7 with UFM)



Connector Part Information

Harness Type: LPG Main

OEM Connector: WPT-169

Service Connector: Service by Harness — See Part Catalog

Description: 4-Way F Motorcraft (BK)

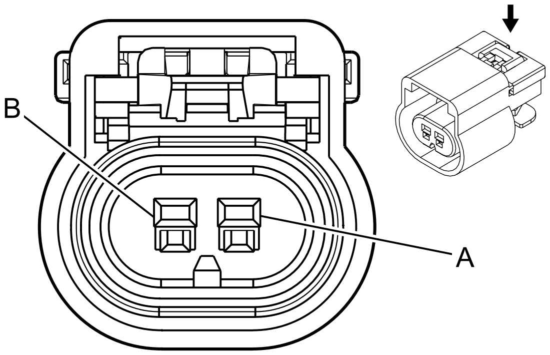
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

G34 Evaporative Emission System Leak Detection Pump (KO7 with UFM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	RD	—	Battery Positive Voltage	I	-
B	0.5	WH	—	Vacuum Pump	I	-
C — D	-	-	-	Not Occupied	-	-

G34 Evaporative Emission System Leak Detection Pump (LGH)



Connector Part Information

Harness Type: Engine Chassis

OEM Connector: 15326802

Service Connector: 13580114

Description: 2-Way F 150 Series, Sealed (BK)

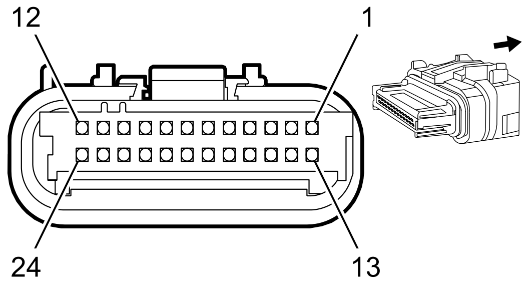
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12191819	8	2	1

G34 Evaporative Emission System Leak Detection Pump (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	1250	Ground	I	-
B	0.8	BN	141	Ignition Voltage	I	-

K103 LPG Control Module (KO7 with UFM)



Connector Part Information

Harness Type: LPG Main

OEM Connector: 1635–1764

Service Connector: Service by Harness — See Part Catalog

Description: 24-Way F Woodward (BK)

Terminal Part Information

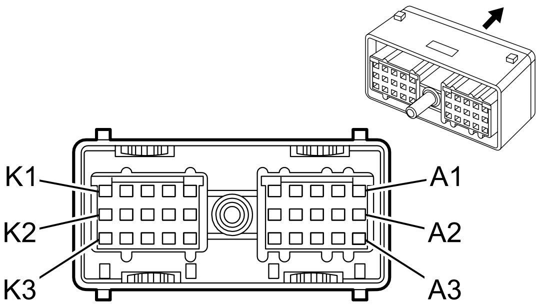
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K103 LPG Control Module (KO7 with UFM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK	—	LPG Pressure and Temperature Sensor Low Reference	I	-
2	0.5	RD	—	Fuel Pump Relay Voltage	I	-
3 — 4	-	-	-	Not Occupied	-	-
5	0.5	GN	—	Fuel Pressure Signal	I	-
6 — 11	-	-	-	Not Occupied	-	-
12	0.5	GY	—	Wait To Start Relay Signal	I	-
13	0.5	RD	—	Battery Positive Voltage	I	-
14	0.5	BK	—	Ground	I	-
15	-	-	-	Not Occupied	-	-
16	0.5	RD/BK	—	Resisted Battery Positive Voltage	I	-
17	0.5	WH	—	Fuel Temperature Signal	I	-
18	0.5	RD	—	5 Volt Reference	I	-
19 — 21	-	-	-	Not Occupied	-	-

22	0.5	YE	—	LPG Bypass Solenoid Relay Signal	I	-
23	-	-	-	Not Occupied	-	-
24	0.5	WH	—	Vacuum Pump Signal	I	-

K103 LPG Control Module (KO7 with UFP)



Connector Part Information

Harness Type: LPG

OEM Connector: 581–01–30–029

Service Connector: Pending

Description: 30-Way F Cinch 1.5 SHS, Sealed (BK)

Terminal Part Information

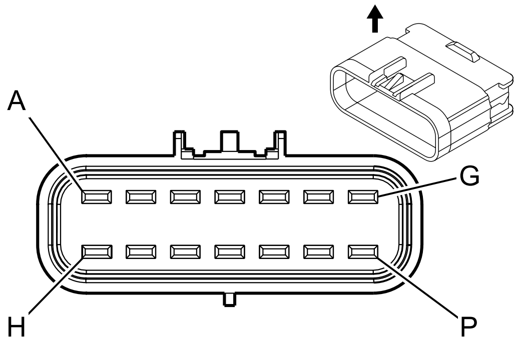
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

K103 LPG Control Module (KO7 with UFP)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1 – C1	-	-	-	Not Occupied	-	-
C2	0.8	PU	—	Fuel Pump Relay Signal	I	-
C3	0.8	OR	—	Scavenge Pump Signal	I	-
D1	-	-	-	Not Occupied	-	-
D2	0.8	BN	—	Fuel Sender – Primary Signal	I	-
D3	-	-	-	Not Occupied	-	-
E1	0.8	RD/WH	—	Primary Pump Signal	I	-
E2	0.8	GN	—	Fuel Sender – Secondary Signal	I	-
E3 — F3	-	-	-	Not Occupied	-	-
G1	0.8	BU	—	Fuel Pump – Secondary Signal	I	-
G2 – G3	-	-	-	Not Occupied	-	-
H1	0.8	RD	—	Battery Positive Voltage	I	-
H2	-	-	-	Not Occupied	-	-

H2	-	-	-	Not Occupied	-	-
H3	0.8	GY	—	Wait to Start Lamp	I	-
J1	-	-	-	Not Occupied	-	-
J2	0.8	WH	—	Fuel Gauge Signal	I	-
J3	-	-	-	Not Occupied	-	-
K1	0.8	YE	—	12 Volt Reference	I	-
K2	0.8	BK	—	Ground	I	-
K3	-	-	-	Not Occupied	-	-

K119 CNG Control Module X1 (FHZ)



Connector Part Information

Harness Type: CNG Fuel Tank

OEM Connector: 15326922

Service Connector: 15326922

Description: 14-Way M GT 280 Series, Sealed (BK)

Terminal Part Information

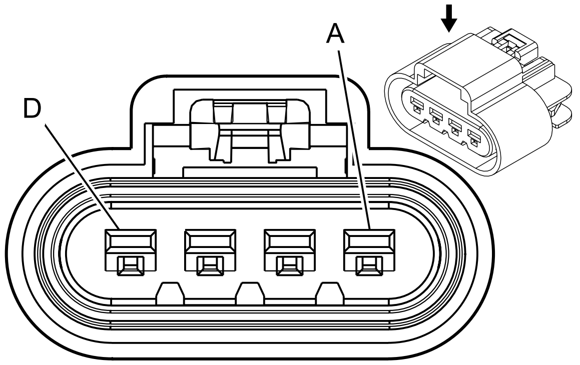
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327135	J-35616-5 (PU)	J-38125-553	15304731	19	C	5

K119 CNG Control Module X1 (FHZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	-	-	-	Not Occupied	-	-
B	0.75	GY	—	CNG Solenoid Valve Control	I	-
C	0.75	GY	—	CNG Solenoid Valve Control	I	-
D	0.75	GY	—	CNG Solenoid Valve Control	I	-
E	0.75	GY	—	CNG Solenoid Valve Control	I	-
F	0.75	GY	—	CNG Solenoid Valve Control	I	-
G	0.75	GY	—	CNG Solenoid Valve Control	I	-
H	0.75	BK	—	Ground	I	-
J	0.75	BK	—	Low Reference	I	-
K	0.75	BK	—	Low Reference	I	-
L	0.75	BK	—	Low Reference	I	-
M	0.75	BK	—	Low Reference	I	-
N	0.75	BK	—	Low Reference	I	-
P	0.75	BK	—	Low Reference	I	-

[illegible]	0.75	BK		Low Reference	I	

K119 CNG Control Module X2 (FHZ)



Connector Part Information

Harness Type: CNG Power

OEM Connector: 15326631

Service Connector: 13580864

Description: 4-Way F GT 280 5.8 Series, Sealed (BK)

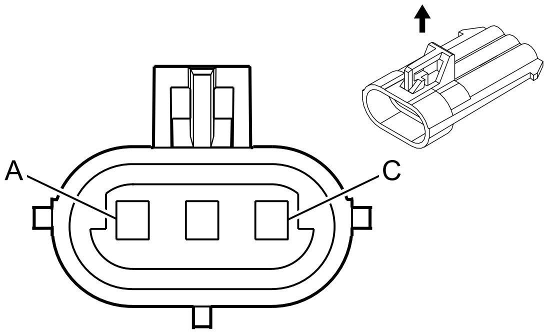
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575405	J-35616-4A (PU)	J-38125-553	15304719	19	2	5

K119 CNG Control Module X2 (FHZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	BK	—	Ground	I	-
B	-	-	-	Not Occupied	-	-
C	0.75	PU	—	Fuel Level Sensor Signal	I	-
D	0.75	GY	—	Fuel Pump Control	I	-

K119 CNG Control Module X3 (FHZ)



Connector Part Information

Harness Type: CNG Fuel Pressure

OEM Connector: 12129615

Service Connector: 15305889

Description: 3-Way M Metri-Pack 150 (BK)

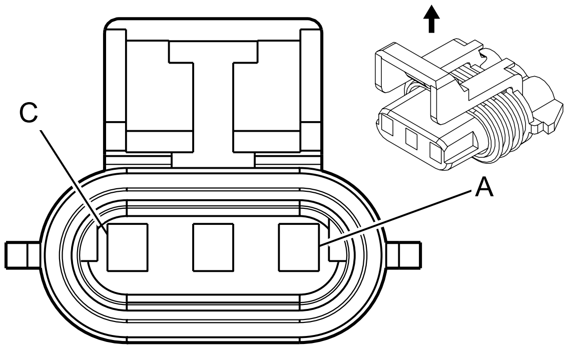
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-3 (GY)	J-38125-12A	12045773	2	E	1

K119 CNG Control Module X3 (FHZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	RD	—	5-Volt Reference	I	-
B	0.5	GN	—	Alternative Fuel Tank Pressure Signal	I	-
C	0.5	BK	—	Low Reference	I	-

K119 CNG Control Module X4 (FHZ)



Connector Part Information

Harness Type: CNG Control Module

OEM Connector: 12110293

Service Connector: 12117025

Description: 3-Way F Metri-Pack 150 Series, Sealed (BK)

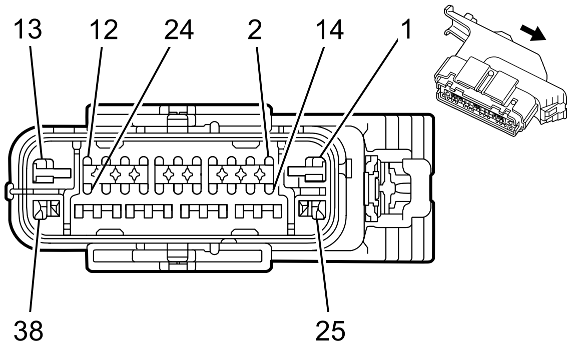
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

K119 CNG Control Module X4 (FHZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A-C	-	-	-	Not Occupied	-	-

K17 Electronic Brake Control Module (JL4)



Connector Part Information

Harness Type: Chassis

OEM Connector: 13528146

Service Connector: 19178085

Description: 38-Way F 2.8 Series, Sealed (BK)

Terminal Part Information

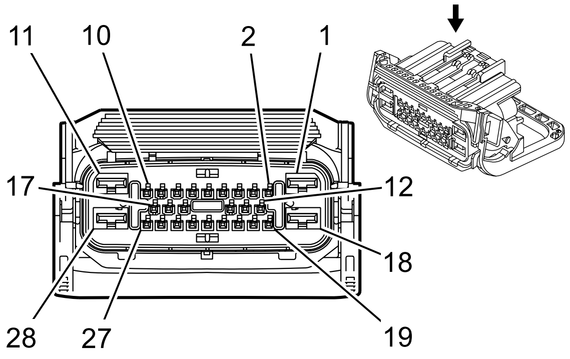
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578926	J-35616-42 (RD)	J-38125-11A	7116-4142-02	10	D	3
II	13578883	J-35616-64B (L-BU)	J-38125-215A	SAITS-A03T-M064	14	9	9
III	13575408	J-35616-4A (PU)	J-38125-553	15392777	23	D	5

K17 Electronic Brake Control Module (JL4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	5	BK	2150	Ground	I	-
2	0.5	WH	883	Low Reference	II	-
3	0.5	BN	882	Right Rear Wheel Speed Sensor Signal	II	-
4	0.5	TN	884	Left Rear Wheel Speed Sensor Signal	II	-
5	0.5	OG	885	Low Reference	II	-
6	0.5	TN	833	Low Reference	II	-
7	0.5	YE	6046	Steering Angle Sensor Phase A	II	-
8	0.5	TN	6048	Steering Angle Sensor Phase C	II	-
9	0.5	L-GN	6043	Steering Angle Sensor Signal	II	-
10–11	-	-	-	Not Occupied	-	-
12	0.5	L-BU	5986	Serial Data Communication Enable	II	-

12	0.5	L-BU	5986	Serial Data Communication Enable	II	-
13	5	RD/BK	442	Battery Positive Voltage	I	-
14–15	-	-	-	Not Occupied	-	-
16	0.5	OG/BK	6045	Low Reference	II	-
17	0.5	D-GN	872	Right Front Wheel Speed Sensor Signal	II	-
18	-	-	-	Not Occupied	-	-
19	0.5	GY/BK	1337	12-Volt Reference	II	-
20	0.5	D-BU	6047	Steering Angle Sensor Phase B	II	-
21	0.5	WH/BK	6436	CAN Bus Low Terminated Serial Data	II	-
22	-	-	-	Not Occupied	-	-
23	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	II	-
24	0.5	TN	2501	High Speed GMLAN Serial Data Bus (–)	II	-
25	3	BK	2150	Ground	III	-
26–27	-	-	-	Not Occupied	-	-
28	0.5	L-BU	830	Left Front Wheel Speed Sensor Signal	II	-
29	0.5	YE	873	Low Reference	II	-
30	0.5	BK/PU	7499	Low Reference	II	-
31	0.5	GY	6044	5-Volt Reference	II	-
32	0.5	YE/BK	1827	Vehicle Speed Signal	II	-
33	0.5	BN/WH	6437	CAN Bus High Terminated Serial Data	II	-
34–35	-	-	-	Not Occupied	-	-
36	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	II	-
37	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	II	-
38	3	RD/WH	1640	Battery Positive Voltage	-	-

K17 Electronic Brake Control Module (without JL4)



Connector Part Information

Harness Type: Chassis

OEM Connector: 13628862

Service Connector: 19149286

Description: 28-Way F 0.64/6.3 Series, Sealed (BK)

Terminal Part Information

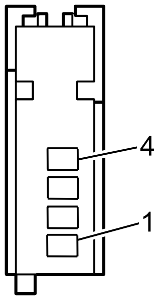
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: 1, 11 – Pending	J-35616-42 (RD)	J-38125-11A	7116-4142-02	10	Pins: 1, 11 – A	3
II	13575378	J-35616-64B (L-BU)	J-38125-215A	SAITS-A03T-M064	14	9	9

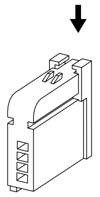
K17 Electronic Brake Control Module (without JL4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	3	RD/WH	1640	Battery Positive Voltage	I	-
2	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	II	-
3	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	II	-
4–10	-	-	-	Not Occupied	-	-
11	3	BK	2150	Ground	I	-
12	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	II	-
13	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	II	-
14	-	-	-	Not Occupied	-	-
15	0.5	L-BU	830	Left Front Wheel Speed Sensor Signal	II	-
16	0.5	YE	873	Low Reference	II	-
17	-	-	-	Not Occupied	-	-
18	5	RD/BK	442	Battery Positive Voltage	I	-

19	0.5	L-BU	5986	Serial Data Communication Enable	II	-
20	0.5	YE/BK	1827	Vehicle Speed Signal	II	-
21–25	-	-	-	Not Occupied	-	-
26	0.5	D-GN	872	Right Front Wheel Speed Sensor Signal	II	-
27	0.5	TN	833	Low Reference	II	-
28	5	BK	2150	Ground	I	-

K18 Compass Module (U80)





Connector Part Information

Harness: Front Headliner

OEM: 13541539

Service: 13585622

Description: 4-Way F AIT II Series (BK)

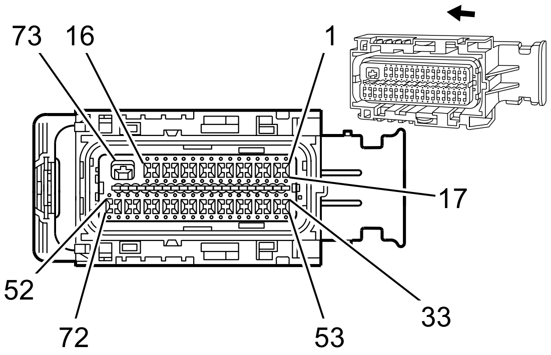
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				7116-4618-02	7116-4618-02	P	P

K18 Compass Module (U80)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BN	441	Ignition Voltage	I	-
2	0.35	BK/WH	351	Ground	I	-
3	0.35	D-GN	6134	Local Interconnect Network 3	I	-
4	-	-	-	Not Occupied	-	-

K20 Engine Control Module X1 (LC8, LMF, L20 or L96)



Connector Part Information

Harness Type: Engine

OEM Connector: 13580802

Service Connector: 88988931

Description: 73-Way F MX123 34566 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: 1, 12–13, 23, 29–30, 32, 34, 36, 50, 52, 56–57, 63, 68 – 13575811	J-35616-64B (L-BU)	J-38125-213	Pins: 1, 12, 13, 23, 29, 30, 32, 34, 36, 50, 52, 56, 57, 63, 68 – 33467-0003	23	Pins: 9, 16, 18-20, 24, 26-28, 31, 33, 47, 54, 59, 61, 71 – J	J
II	Service by Harness - See Part Catalog	J-35616-35 (VT)	J-38125-11A	7116-4152-02	9	A	5

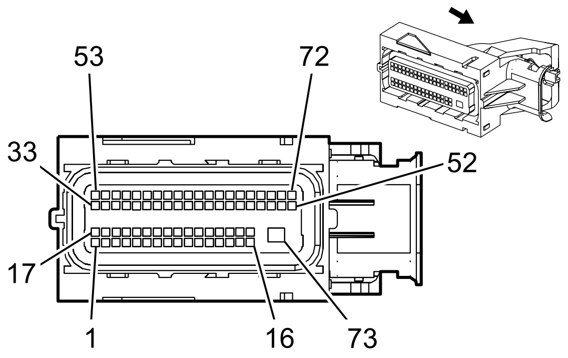
K20 Engine Control Module X1 (LC8, LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	OG/BK	1786	Park/Neutral Signal	I	-
2–8	-	-	-	Not Occupied	-	-
9	0.5	L-BU/WH	6311	Torque Converter Clutch (TCC) Brake Signal	I	-
10	0.8	PU/WH	1668	Heated Oxygen Sensor (HO2S) High Signal – Bank 1 Sensor 2	I	-
11	0.8	TN/WH	1669	Heated Oxygen Sensor (HO2S) Low Signal – Bank 1 Sensor 2	I	-
12	0.35	OG/BK	380	A/C Refrigerant Pressure Sensor Signal	I	C60
13	0.35	TN	5514	Low Reference	I	C60
14–15	-	-	-	Not Occupied	-	-
16	0.5	PU	1589	Fuel Level Sensor Signal – Primary	I	-
17	-	-	-	Not Occupied		

17	-	-	-	Not Occupied	-	-
18	0.5	D-BU	5985	Accessory Wakeup Serial Data	I	-
19	0.5	PK	439	Ignition Voltage	I	-
20	0.5	RD/WH	440	Battery Positive Voltage	I	-
21	-	-	-	Not Occupied	-	-
22	0.8	L-BU/BK	6813	Low Reference	I	-
23	0.35	PU	1272	Low Reference	I	-
24	0.5	D-GN	890	Fuel Tank Pressure Sensor Signal	I	-
25	-	-	-	Not Occupied	-	-
26	0.5	YE	5361	Brake Apply Sensor Signal	-	-
27	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	I	-
28	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
29	0.35	D-BU	1161	Accelerator Pedal Position (APP) Sensor 1 Signal	I	-
30	0.35	BN	1271	Low Reference	I	-
31	0.5 0.5	TN/BK TN/BK	2759 6049	Low Reference Low Reference	I	L20 or L96 LMF
32	0.35	L-BU	1162	Accelerator Pedal Position (APP) Sensor 2 Signal	I	-
33	0.5	GY	2709	5-Volt Reference 1	I	-
34	0.35	GY	2700	5-Volt Reference 1	I	C60
35	-	-	-	Not Occupied	-	-
36	0.35	TN	1274	5-Volt Reference 1	I	-
37	0.5	TN/WH	472	Intake Air Temperature (IAT) Sensor Signal	I	-
38	0.8	TN	2760	Low Reference	I	-
39	0.8	L-GN	2032	Engine Coolant Temperature (ECT) Sensor Signal	I	-
40	-	-	-	Not Occupied	-	-
41	0.8	YE	492	Mass Air Flow (MAF) Sensor Signal	I	-
42	0.5	BN	5360	Brake Apply Sensor Low Reference	-	-
43–46	-	-	-	Not Occupied	-	-
47	0.5	PK	1339	Ignition Voltage	I	-
48	-	-	-	Not Occupied	-	-
49	0.8	TN	1671	Heated Oxygen Sensor (HO2S) Low Signal – Bank 2 Sensor 2	I	-
50	0.35	D-GN/WH	465	Fuel Pump Relay Control – Primary	I	-

50	0.35	D-GN/WH	465	Fuel Pump Relay Control – Primary	I	-
51	-	-	-	Not Occupied	-	-
52	0.35	YE/BK	625	Starter Enable Relay Control	I	-
53	-	-	-	Not Occupied	-	-
54	0.5	WH	5359	Brake Apply Sensor Supply Voltage	-	-
55	-	-	-	Not Occupied	-	-
56	0.35	WH/BK	1164	5-Volt Reference 2	I	-
57	0.35	YE/BK	1827	Vehicle Speed Signal	I	-
58	-	-	-	Not Occupied	-	-
59	0.5	YE	5991	Powertrain Relay Control	I	-
60	-	-	-	Not Occupied	-	-
61	0.5	WH	1310	Evaporative Emission (EVAP) Canister Vent Solenoid Control	I	-
62	-	-	-	Not Occupied	-	-
63	0.35	D-GN/WH	459	A/C Compressor Clutch Relay Control	I	C60
64	0.8	OG/WH	3223	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank 2 Sensor 2	I	-
65	0.8	GY/WH	3122	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank 1 Sensor 2	I	-
66–67	-	-	-	Not Occupied	-	-
68	0.35	BN/WH	419	MIL Control	I	-
69	0.8	PU	1670	Heated Oxygen Sensor (HO2S) High Signal – Bank 2 Sensor 2	I	-
70	-	-	-	Not Occupied	-	-
71	0.5	OG/BK	6399	Replicated TOS Signal	I	-
72	-	-	-	Not Occupied	-	-
73	3	BK/WH	1551	Ground	II	-

K20 Engine Control Module X1 (LGH)



Connector Part Information

Harness Type: Engine Chassis

OEM Connector: 13649839

Service Connector: 13574946

Description: 73-Way F MX123 34566 Series (BU)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575575	J-35616-64B (L-BU)	J-38125-213	33467-0005	23	Pins: 1–2, 6, 50, 53, 70 – K	K
II	Pending	J-35616-35 (VT)	J-38125-11A	7116-4152-02	9	A	5

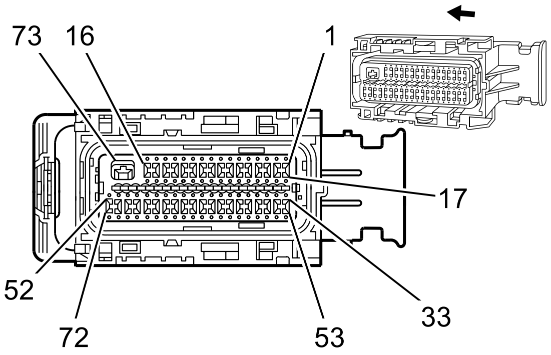
K20 Engine Control Module X1 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	BN/WH	3100	DEF Dosing Valve Low Control	I	-
2	0.8	BN	3099	DEF Dosing Valve High Control	I	-
3	0.5	D-BU	3105	DEF Smart Pump Control	I	-
4	0.5	D-GN/WH	465	Fuel Pump Primary Relay Control	I	-
5	0.5	YE/BK	625	Starter Enable Relay Control	I	-
6	0.8	D-GN	3101	DEF Reverting Valve High Control	I	-
7	0.5	BN/WH	6783	Low Reference	I	-
8	-	-	-	Not Occupied	-	-
9	0.5	L-BU/WH	6311	Cruise/ETC/TCC Brake Signal	I	-
10–13	-	-	-	Not Occupied	-	-
14	0.5	GY	2365	5 Volt Reference	I	-
15	0.5	GY/BK	2931	Low Reference	I	-

15	0.5	GY/BK	2931	Low Reference	I	-
16	0.5	L-BU/WH	6288	Low Reference	I	-
17	0.5	BN/WH	419	Check Engine Indicator Control	I	-
18	0.5	PU	2927	Hydrocarbon Injector Low Control	I	-
19	0.5	WH/BK	2366	Cooling Fan Control Relay Speed Signal	I	-
20	0.5	D-BU	507	Wait To Start Indicator Control	I	-
21	0.5	WH/BK	2366	Cooling Fan Control Relay Speed Signal	-	-
22	0.5	TN	3657	Low Reference	I	-
23–24	-	-	-	Not Occupied	-	-
25	0.5	OG/BK	1786	Transmission Park/Neutral Signal	I	-
26	0.5	D-BU	5985	Accessory Wakeup Serial Data	I	-
27	0.5	TN	3661	Low Reference	I	-
28	0.5	TN	2759	Low Reference	I	-
29	0.5	BN	3108	DEF Pressure Sensor Signal	I	-
30	0.5	GY	3106	5 Volt Reference	I	-
31	0.5	TN	3107	Low Reference	I	-
32	-	-	-	Not Occupied	-	-
33	0.5	D-BU	2926	Hydrocarbon Injector High Control	I	-
34	0.5	D-GN/WH	459	A/C Compressor Clutch Relay Control	I	-
35	0.5	TN	3104	Low Reference	I	-
36	0.5	TN	5514	Low Reference	I	-
37	-	-	-	Not Occupied	-	-
38	0.5	L-BU	5377	Exhaust Gas Temperature Sensor 2 Signal	I	-
39	0.5	L-BU	1162	Accelerator Pedal Position Signal 2	I	-
40	0.5	TN/BK	6289	Induction Air Temperature Sensor Signal	I	-
41	0.5	D-BU	6053	Exhaust Pressure Sensor Signal 1	I	-
42	0.5	WH/BK	1164	5 Volt Reference	I	-
43	0.5	GY	6054	5 Volt Reference	I	-
44	0.5	YE	6055	Low Reference	I	-
45	0.5	L-GN	7494	High Speed GMLAN Serial Data (-) (3)	I	-
46	0.5	TN	2501	High Speed GMLAN Serial Data (-) (1)	I	-
47	-	-	-	Not Occupied	-	-

47	-	-	-	Not Occupied	-	-
48	0.5	PK	439	Run/Crank Ignition 1 Voltage	I	-
49	0.5	YE	492	Mass Air Flow Sensor Signal	I	-
50	0.8	OG	225	Generator Turn On Signal	I	-
51	0.5	PU	1272	Low Reference	I	-
52	-	-	-	Not Occupied	-	-
53	0.8	BK	3102	DEF Reverting Valve Low Control	I	-
54	0.5	GY	3103	DEF Smart Pump Supply Voltage	I	-
55	0.5	BN	1271	Low Reference	I	-
56	0.5	D-BU/WH	3660	Exhaust Gas Temperature Sensor 4 Signal	I	-
57	0.5	L-GN	5378	Exhaust Gas Temperature Sensor 3 Signal	I	-
58	0.5	PU	1589	Primary Fuel Level Sensor Signal	I	-
59	0.5	OG/BK	380	A/C Refrigerant Pressure Sensor Signal	I	-
60	-	-	-	Not Occupied	-	-
61	0.5	D-BU	1161	Accelerator Pedal Position Signal 1	I	-
62	0.5	TN	1274	5 Volt Reference	I	-
63	0.5	GY	2700	5 Volt Reference	I	-
64	-	-	-	Not Occupied	-	-
65	0.5	D-GN	7493	High Speed GMLAN Serial Data (+) (3)	I	-
66	0.5	TN/BK	2500	High Speed GMLAN Serial Data (+) (1)	I	-
67	0.5	RD/WH	440	Battery Positive Voltage	I	-
68	0.5	YE	5991	Powertrain Relay Coil Control	I	-
69	0.5	D-BU	2364	Cooling Fan Speed Signal	I	-
70	0.8	GY	23	Generator Field Duty Cycle Signal	I	-
71	0.5	BN/WH	6141	Low Reference	I	-
72	0.5	OG/BK	6399	Replicated TOS Signal	I	-
73	3	PK	1439	Run/Crank Ignition 1 Voltage	-	-

K20 Engine Control Module X1 (LU3)



Connector Part Information

Harness Type: Engine

OEM Connector: 13580810

Service Connector: 88988931

Description: 73-Way F MX123 34566 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: 1, 6, 8, 18, 21, 25, 27, 30, 32, 41, 47, 50, 57, 65, 67 – 13575811	J-35616-64B (L-BU)	J-38125-213	Pins: 1, 6, 8, 18, 21, 25, 27, 30, 32, 41, 47, 50, 57, 65, 67 – 33467-0003	23	Pins: 1, 6, 8, 18, 21, 25, 27, 30, 32, 41, 47, 50, 57, 65, 67 – H	H
II	Service by Harness – See Part Catalog	J-35616-35 (VT)	J-38125-12A	1326030-8	17	A	4

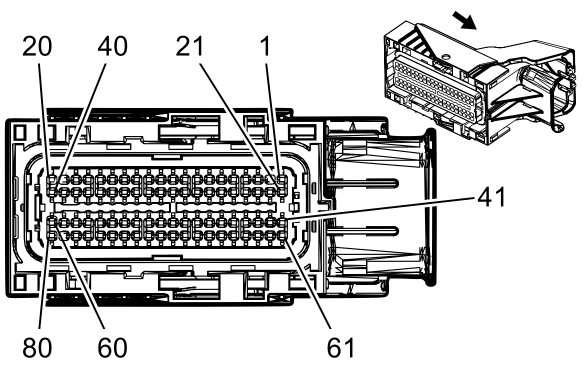
K20 Engine Control Module X1 (LU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-BU	1161	Accelerator Pedal Position (APP) Sensor 1 Signal	I	-
2	0.8	PU	1670	Heated Oxygen Sensor (HO2S) High Signal – Bank 2 Sensor 2	I	-
3	0.5	D-BU	5985	Accessory Wakeup Serial Data	I	-
4–5	-	-	-	Not Occupied	-	-
6	0.35	D-GN/WH	465	Fuel Pump Relay Control – Primary	I	-
7	-	-	-	Not Occupied	-	-
8	0.35	TN	5514	Low Reference	I	C60
9	0.8	TN/WH	1669	Heated Oxygen Sensor (HO2S) Low Signal – Bank 1 Sensor 2	I	-
10	0.8	TN	1671	Heated Oxygen Sensor (HO2S) Low Signal – Bank 2 Sensor 2	I	-

				Sensor 2		
11	0.5	BN	5360	Brake Apply Sensor Low Reference	I	-
12	-	-	-	Not Occupied	-	-
13	0.5	YE	5991	Powertrain Relay Control	I	-
14	-	-	-	Not Occupied	-	-
15	0.8	GY/WH	3122	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank 1 Sensor 2	I	-
16	0.8	OG/WH	3223	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank 2 Sensor 2	I	-
17	0.8	PU/WH	1668	Heated Oxygen Sensor (HO2S) High Signal – Bank 1 Sensor 2	I	-
18	0.35	L-BU	1162	Accelerator Pedal Position (APP) Sensor 2 Signal	I	-
19	0.5	PK	439	Ignition Voltage	I	-
20	0.5	RD/WH	440	Battery Positive Voltage	I	-
21	0.35	PU	1272	Low Reference	I	-
22–23	-	-	-	Not Occupied	-	-
24	0.5	TN/BK	6049	Low Reference	I	-
25	0.35	OG/BK	380	A/C Refrigerant Pressure Sensor Signal	I	C60
26	-	-	-	Not Occupied	-	-
27	0.35	BN/WH	419	MIL Control	I	-
28–29	-	-	-	Not Occupied	-	-
30	0.35	D-GN/WH	459	A/C Compressor Clutch Relay Control	I	C60
31	-	-	-	Not Occupied	-	-
32	0.35	YE/BK	625	Starter Enable Relay Control	I	-
33–34	-	-	-	Not Occupied	-	-
35	0.8	TN	2760	Low Reference	I	-
36	-	-	-	Not Occupied	-	-
37	0.5	YE	492	Mass Air Flow (MAF) Sensor Signal	I	-
38	-	-	-	Not Occupied	-	-
39	0.5	PU	1589	Fuel Level Sensor Signal – Primary	I	-
40	-	-	-	Not Occupied	-	-
41	0.35	BN	1271	Low Reference	I	-
42	0.5	D-GN	890	Fuel Tank Pressure Sensor Signal	I	-
43	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-

43	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
44	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	I	-
45	0.5	WH	5359	Brake Apply Sensor Supply Voltage	I	-
46	-	-	-	Not Occupied	-	-
47	0.35	WH/BK	1164	5-Volt Reference 2	I	-
48–49	-	-	-	Not Occupied	-	-
50	0.35	YE/BK	1827	Vehicle Speed Signal	I	-
51–53	-	-	-	Not Occupied	-	-
54	0.5	OG/BK	6399	Replicated TOS Signal	I	-
55	0.5	L-BU/WH	6311	Torque Converter Clutch (TCC) Brake Signal	I	-
56	-	-	-	Not Occupied	-	-
57	0.35	OG/BK	1786	Park/Neutral Signal	I	-
58	0.5	TN	472	Intake Air Temperature (IAT) Sensor Signal	I	-
59–60	-	-	-	Not Occupied	-	-
61	0.5	YE	5361	Brake Apply Sensor Signal	-	-
62–64	-	-	-	Not Occupied	-	-
65	0.35	GY	2700	5-Volt Reference 1	I	C60
66	0.5	GY	2709	5-Volt Reference 1	I	-
67	0.35	TN	1274	5-Volt Reference 1	I	-
68–69	-	-	-	Not Occupied	-	-
70	0.5	WH	1310	Evaporative Emission (EVAP) Canister Vent Solenoid Control	I	-
71–72	-	-	-	Not Occupied	-	-
73	0.5	PK	1339	Ignition Voltage	-	-

K20 Engine Control Module X2 (LC8, LMF, L20 or L96)



Connector Part Information

Harness Type: Engine

OEM Connector: 13536319

Service Connector: 19115670

Description: 80-Way F MX123 34566 Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575575	J-35616-64B (L-BU)	J-38125-213	33467-0005	23	Pins: 2, 12-13, 16, 21-22, 26-27, 29-30, 34, 41, 43-44, 50, 52-53, 56-60, 64, 66, 68-79 – K	K
II	13575811	J-35616-64B (L-BU)	J-38125-213	33467-0003	23	H	H

K20 Engine Control Module X2 (LC8, LMF, L20 or L96)

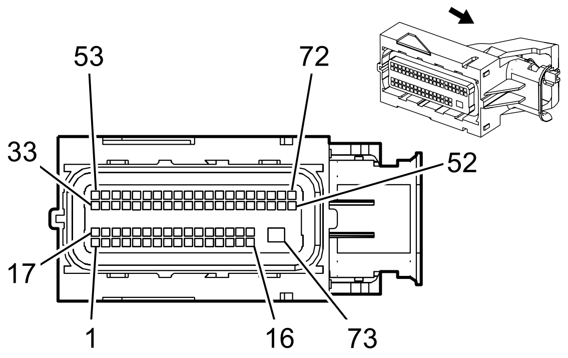
Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.35	PU/WH	6270	5-Volt Reference 2	I	-
3	0.35	GY	2701	5-Volt Reference 2	II	-
4	-	-	-	Not Occupied	-	-
5	0.5	BN	582	Throttle Actuator Control Motor Control – 2	I	-
6	0.5	YE	581	Throttle Actuator Control Motor Control – 1	I	-
7	-	-	-	Not Occupied	-	-
8	0.5	D-GN/WH	428	Evaporative Emission (EVAP) Canister Purge Solenoid Control	I	-
9–11	-	-	-	Not Occupied	-	-
12	0.8	GY/WH	3113	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank	I	

12	0.8	GY/WH	3113	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank 1 Sensor 1	I	-
13	0.8	L-GN	3212	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank 2 Sensor 1	I	-
14–15	-	-	-	Not Occupied	-	-
16	0.8	PU	5284	Camshaft Phaser Intake Solenoid (1)	I	L96
17	0.5	D-BU/WH	878	Fuel Injector 8 Control	I	-
18	0.5	TN/WH	845	Fuel Injector 5 Control	I	-
19	0.5	YE/BK	846	Fuel Injector 6 Control	I	-
20	0.5	TN	1744	Fuel Injector 1 Control	I	-
21	0.5	YE	410	Engine Coolant Temperature (ECT) Sensor Signal	I	-
22	0.5	TN	2761	Low Reference	I	-
23–25	-	-	-	Not Occupied	-	-
26	0.8	D-BU	496	Knock Sensor (KS) 1 Signal	I	-
27	0.8	GY	1716	Knock Sensor (KS) 1 Signal	I	-
28	-	-	-	Not Occupied	-	-
29	0.8	L-BU	1876	Knock Sensor (KS) 2 Signal	I	-
30	0.8	GY	2303	Knock Sensor (KS) 2 Signal	I	-
31	-	-	-	Not Occupied	-	-
32	0.5	GY	23	Generator Field Duty Cycle Signal	I	-
33	-	-	-	Not Occupied	-	-
34	0.35	BK	2755	Low Reference	I	-
35	0.35	TN	2752	Low Reference	II	-
36	-	-	-	Not Occupied	-	-
37	0.5	L-GN/BK	1745	Fuel Injector 2 Control	I	-
38	0.5	PK/BK	1746	Fuel Injector 3 Control	I	-
39	0.5	L-BU/BK	844	Fuel Injector 4 Control	I	-
40	0.5	OG/BK	877	Fuel Injector 7 Control	I	-
41	0.35	GY	2705	5-Volt Reference 1	I	-
42	-	-	-	Not Occupied	-	-
43	0.35	GY	2704	5-Volt Reference 1	I	-
44	0.35	D-BU	6259	5-Volt Reference 1	I	-

45–49	-	-	-	Not Occupied	-	-
50	0.35	TN/WH	331	Oil Pressure Sensor Signal	I	-
51	-	-	-	Not Occupied	-	-
52	0.8	TN	2199	Low Reference	I	L96
53	0.35	OG/BK	469	Low Reference	I	-
54–55	-	-	-	Not Occupied	-	-
56	0.8	TN	1664	Heated Oxygen Sensor (HO2S) Low Signal – Bank 1 Sensor 1	I	-
57	0.8	PU/WH	1665	Heated Oxygen Sensor (HO2S) High Signal – Bank 1 Sensor 1	I	-
58	0.35	L-GN	432	Manifold Absolute Pressure (MAP) Sensor Signal	I	-
59	0.8	PU	1666	Heated Oxygen Sensor (HO2S) High Signal – Bank 2 Sensor 1	I	-
60	0.8	TN	1667	Heated Oxygen Sensor (HO2S) Low Signal – Bank 2 Sensor 1	I	-
61	0.5	OG	225	Generator Turn On Signal	I	-
62	-	-	-	Not Occupied	-	-
63	0.35	PU	486	Throttle Position (TP) Sensor 2 Signal	II	-
64	0.35	D-BU/WH	6265	Camshaft Position (CMP) Sensor Signal	I	-
65	0.35	D-GN	485	Throttle Position (TP) Sensor 1 Signal	II	-
66	0.35	BN	6266	Low Reference	I	-
67	-	-	-	Not Occupied	-	-
68	0.35	WH/BK	6271	Crankshaft Position (CKP) Sensor Signal	I	-
69	0.35	GY/BK	6272	Low Reference	I	-
70	0.8	PU	2121	Ignition Coil 1 Control	I	-
71	0.8	PU/WH	2128	Ignition Coil 8 Control	I	-
72	0.8	OG	2127	Ignition Coil 7 Control	I	-
73	0.8	OG/WH	2122	Ignition Coil 2 Control	I	-
74	0.8	L-BU/WH	2126	Ignition Coil 6 Control	I	-
75	0.8	D-GN	2125	Ignition Coil 5 Control	I	-
76	0.8	D-GN/WH	2124	Ignition Coil 4 Control	I	-
77	0.8	L-BU	2123	Ignition Coil 3 Control	I	-
78	0.8	BN	2129	Low Reference	I	-

79	0.8	BN/WH	2130	Low Reference	I	-
80	-	-	-	Not Occupied	-	-

K20 Engine Control Module X2 (LGH)



Connector Part Information

Harness Type: Engine

OEM Connector: 12603596

Service Connector: 13574947

Description: 73-Way F MX123 34566 Series (BK)

Terminal Part Information

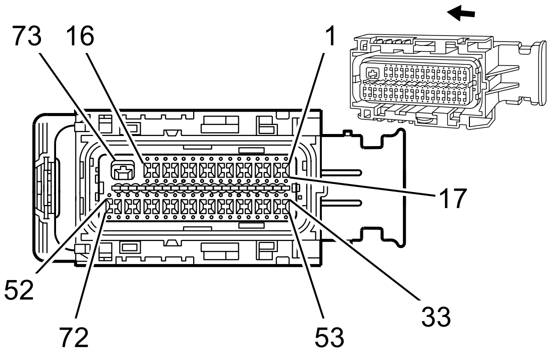
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575575	J-35616-64B (L-BU)	J-38125-213	33467-0005	23	Pins: 3, 5–10, 22, 25, 27, 41, 47, 66–67 – J	J
II	Pending	J-35616-35 (VT)	J-38125-11A	7116-4152-02	9	A	5

K20 Engine Control Module X2 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1–2	-	-	-	Not Occupied	-	-
3	0.5	YE	2928	Fuel Metering Valve High Control	I	-
4	0.8	PU/WH	2530	Fuel Rail Pressure Solenoid Supply Voltage	I	-
5	0.5	BK	2929	Fuel Metering Valve Low Control	I	-
6	0.5	WH	5931	Variable Nozzle Turbo Solenoid Low Signal	I	-
7	0.5	TN	2752	Low Reference	I	-
8	0.5	TN	2753	Low Reference	I	-
9	0.5	BN	1174	Oil Level Switch Signal	I	-
10	0.5	BN	6782	Low Reference	I	-
11–12	-	-	-	Not Occupied	-	-
13	0.8	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	I	-
14	0.8	TN/WH	4907	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 7	I	-

14	0.8	TN/WH	4907	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 7	I	-
15	0.8	L-BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	I	-
16	0.8	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	I	-
17	0.8	BK/WH	451	Ground	I	-
18	0.8	BK/WH	451	Ground	I	-
19	0.8	YE	2834	Low Reference	I	-
20	-	-	-	Not Occupied	-	-
21	0.8	BK/WH	451	Ground	I	-
22	0.5	D-BU	5930	Variable Nozzle Turbo Solenoid High Signal	I	-
23–24	-	-	-	Not Occupied	-	-
25	0.5	OG/BK	5929	Low Reference	I	-
26	-	-	-	Not Occupied	-	-
27	0.5	YE/BK	1827	Vehicle Speed Signal	I	-
28	-	-	-	Not Occupied	-	-
29	0.8	L-BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	I	-
30	0.8	PU/WH	4906	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 6	I	-
31	0.8	TN	4807	Direct Fuel Injector (DFI) High Voltage Control Cylinder 7	I	-
32	0.8	PU	4806	Direct Fuel Injector (DFI) High Voltage Control Cylinder 6	I	-
33–40	-	-	-	Not Occupied	-	-
41	0.5	BK	2755	Low Reference	I	-
42–46	-	-	-	Not Occupied	-	-
47	0.5	GY	2702	5 Volt Reference	I	-
48–65	-	-	-	Not Occupied	-	-
66	0.5	TN	5928	Variable Nozzle Turbo Position Sensor Voltage Reference	I	-
67	0.5	PU/WH	6270	5 Volt Reference	I	-
68–72	-	-	-	Not Occupied	-	-
73	3	BK/WH	451	Ground	II	-

K20 Engine Control Module X2 (LU3)



Connector Part Information

Harness Type: Engine

OEM Connector: 13580811

Service Connector: 88988372

Description: 73-Way F MX123 34566 Series (L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: 4–5, 6–13, 16, 20, 30–33, 35–39, 41, 43, 45–46, 48–51, 54, 58, 65–66, 68, 70–71 – 13575575	J-35616-64B (L-BU)	J-38125-213	Pins: 4–5, 6–13, 16, 20, 30–33, 35–39, 41, 43, 45–46, 48–51, 54, 58, 65–66, 68, 70–71 – 33467-0005	23	Pins: 4–5, 13, 20, 33, 35–39, 41, 45–46, 48–51, 54, 58, 65–66, 68, 70–71 – K	K
II	Pending	J-35616-35 (VT)	J-38125-11A	7116-4152-02	9	A	5

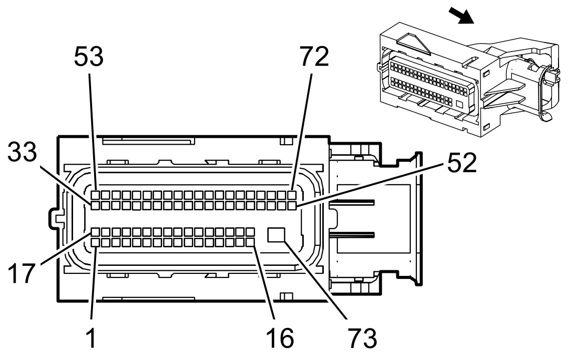
K20 Engine Control Module X2 (LU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1–3	-	-	-	Not Occupied	-	-
4	0.5	TN	2761	Low Reference	I	-
5	0.35	GY/BK	6272	Low Reference	I	-
6	0.5	TN	1744	Fuel Injector 1 Control	I	-
7	0.5	YE/BK	846	Fuel Injector 6 Control	I	-
8	0.5	TN/WH	845	Fuel Injector 5 Control	I	-
9	0.5	BN	2129	Low Reference	I	-
10	0.5	L-BU/BK	844	Fuel Injector 4 Control	I	-
11	0.5	PK/BK	1746	Fuel Injector 3 Control	I	-
12	0.5	L-GN/BK	1745	Fuel Injector 2 Control	I	-

13	0.5	GY	2704	5-Volt Reference 1	I	-
14–15	-	-	-	Not Occupied	-	-
16	0.5	YE	581	Throttle Actuator Control Motor Control – 1	I	-
17–19	-	-	-	Not Occupied	-	-
20	0.35	BN	6266	Low Reference	I	-
21	-	-	-	Not Occupied	-	-
22	0.5	PU	2121	Ignition Coil 1 Control	-	-
23	0.5	L-BU	2123	Ignition Coil 3 Control	-	-
24	0.5	OG/WH	2122	Ignition Coil 2 Control	-	-
25–29	-	-	-	Not Occupied	-	-
30	0.5	D-GN/WH	428	Evaporative Emission (EVAP) Canister Purge Solenoid Control	I	-
31	0.5	OG	225	Generator Turn On Signal	I	-
32	0.5	BN	582	Throttle Actuator Control Motor Control – 2	I	-
33	0.35	D-BU	6259	5-Volt Reference 1	I	-
34	-	-	-	Not Occupied	-	-
35	0.35	GY	2705	5-Volt Reference 1	I	-
36	0.35	TN/WH	331	Oil Pressure Sensor Signal	I	-
37	0.8	PU/WH	1665	Heated Oxygen Sensor (HO2S) High Signal – Bank 1 Sensor 1	I	-
38	0.8	PU	1666	Heated Oxygen Sensor (HO2S) High Signal – Bank 2 Sensor 1	I	-
39	0.5	L-GN	432	Manifold Absolute Pressure (MAP) Sensor Signal	I	-
40	0.35	TN	2752	Low Reference	I	-
41	0.35	BK	2755	Low Reference	I	-
42	-	-	-	Not Occupied	-	-
43	0.5	GY	23	Generator Field Duty Cycle Signal	I	-
44	-	-	-	Not Occupied	-	-
45	0.35	WH/BK	6271	Crankshaft Position (CKP) Sensor Signal	I	-
46	0.35	D-BU/WH	6265	Camshaft Position (CMP) Sensor Signal	I	-
47	-	-	-	Not Occupied	-	-
48	0.8	TN	1664	Heated Oxygen Sensor (HO2S) Low Signal – Bank 1 Sensor 1	I	-

49	0.5	OG/BK	469	Low Reference	I	-
50	0.5	GY	1716	Knock Sensor (KS) 1 Signal	I	-
51	0.5	D-BU	496	Knock Sensor (KS) 1 Signal	I	-
52	-	-	-	Not Occupied	-	-
53	0.35	GY	2701	5-Volt Reference 2	I	-
54	0.35	PU/WH	6270	5-Volt Reference 2	I	-
55–56	-	-	-	Not Occupied	-	-
57	0.35	D-GN	485	Throttle Position (TP) Sensor 1 Signal	I	-
58	0.5	YE	410	Engine Coolant Temperature (ECT) Sensor Signal	I	-
59	0.35	PU	486	Throttle Position (TP) Sensor 2 Signal	I	-
60–64	-	-	-	Not Occupied	-	-
65	0.8	GY/WH	3113	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank 1 Sensor 1	I	-
66	0.8	L-GN	3212	Heated Oxygen Sensor (HO2S) Heater Low Control – Bank 2 Sensor 1	I	-
67	-	-	-	Not Occupied	-	-
68	0.8	TN	1667	Heated Oxygen Sensor (HO2S) Low Signal – Bank 2 Sensor 1	I	-
69	-	-	-	Not Occupied	-	-
70	0.5	GY	2303	Knock Sensor (KS) 2 Signal	I	-
71	0.5	L-BU	1876	Knock Sensor (KS) 2 Signal	I	-
72	-	-	-	Not Occupied	-	-
73	3	BK/WH	1551	Ground	-	-

K20 Engine Control Module X3 (LGH)



Connector Part Information

Harness Type: Engine Chassis

OEM Connector: 12603597

Service Connector: 13574948

Description: 73-Way F MX123 34566 Series (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575575	J-35616-64B (L-BU)	J-38125-213	33467-0005	23	Pins: 2, 4, 6–7, 9–14, 15–21, 24, 27–32, 36–38, 40, 44, 46, 48, 54–55, 60–61, 65–68 – J	J
II	Pending	J-35616-35 (VT)	J-38125-11A	7116-4152-02	9	A	5

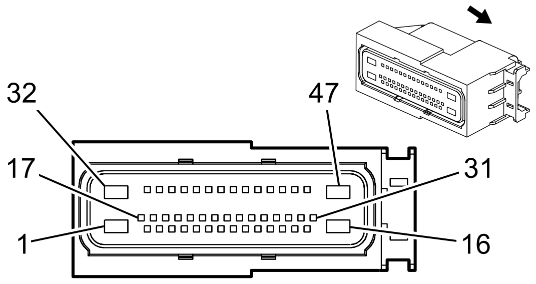
K20 Engine Control Module X3 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.5	BU/YE	6861	Water In Fuel Sensor Signal	I	-
3	-	-	-	Not Occupied	-	-
4	0.5	TN/WH	331	Oil Pressure Sensor Signal	I	-
5	0.5	YE	5361	Brake Apply Sensor Signal	-	-
6	0.5	PU/WH	7584	Exhaust Gas Recirculation Temperature Sensor 1 Supply Voltage	I	-
7	0.5	D-BU	7583	Exhaust Gas Recirculation Temperature Sensor 2 Supply Voltage	I	-
8	-	-	-	Not Occupied	-	-
9	0.5	BN/WH	5763	Exhaust Gas Recirculation Valve Sensor Signal	I	-

9	0.5	BN/WH	5763	Exhaust Gas Recirculation Valve Sensor Signal	I	-
10	0.5	YE	5947	Variable Nozzle Turbo Position Sensor Signal	I	-
11	0.5	YE	1578	Fuel Temperature Signal	I	-
12	0.5	BN	3681	Charge Air Cooler Outlet Temperature Sensor Signal	I	-
13	0.5	TN	3680	Charge Air Cooler Outlet Temperature Sensor Return	I	-
14	0.5	TN	2917	5 Volt Reference	I	-
15	0.5	WH	5359	Brake Apply Sensor Supply Voltage	I	-
16	0.5	GY	2704	5 Volt Reference	I	-
17	0.5	D-BU	6863	Low Reference	I	-
18	0.5	D-BU	5277	Exhaust Gas Temperature Sensor 1 Signal	I	-
19	0.5	D-GN	485	Throttle Position Sensor Signal 1	I	-
20	0.5	YE	2918	Fuel Rail Pressure Sensor Signal	I	-
21	0.5	L-GN	432	Manifold Absolute Pressure Sensor Signal	I	-
22–23	-	-	-	Not Occupied	-	-
24	0.5	YE	410	Engine Coolant Temperature Sensor Signal	I	-
25–26	-	-	-	Not Occupied	-	-
27	0.5	BN/GY	7072	Sensor Fuel Temperature 1 Signal	I	-
28	0.5	D-GN	3683	Charge Air Cooler Inlet Temperature Sensor Signal	I	-
29	0.5	TN/BK	3682	Charge Air Cooler Inlet Temperature Sensor Return	I	-
30	0.5	GY	2705	5 Volt Reference	I	-
31	0.5	D-BU	6259	5 Volt Reference	I	-
32	0.5	GY	2701	5 Volt Reference	I	-
33–35	-	-	-	Not Occupied	-	-
36	0.5	OG/BK	2919	Low Reference	I	-
37	0.5	OG/BK	469	Low Reference	I	-
38	0.5	BN	5360	Brake Apply Sensor Low Reference	I	-
39	-	-	-	Not Occupied	-	-
40	0.5	TN	2761	Low Reference	I	-
41–43	-	-	-	Not Occupied	-	-
44	0.5	GY/BK	5765	Fuel Filter Pressure Switch Signal	I	-
45	-	-	-	Not Occupied	-	-
46	0.5	BN/WH	7073	Sensor Fuel Temperature 1 Return	I	-

46	0.5	BN/WH	7073	Sensor Fuel Temperature 1 Return	I	-
47	-	-	-	Not Occupied	-	-
48	0.5	BN	6062	Low Reference	I	-
49	0.8	GY/WH	4908	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 8	I	-
50	0.8	D-BU/WH	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	I	-
51	0.8	D-BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	I	-
52	0.8	L-BU	4805	Direct Fuel Injector (DFI) High Voltage Control Cylinder 5	I	-
53	-	-	-	Not Occupied	-	-
54	0.5	L-GN/BK	5746	Exhaust Gas Recirculation Valve Motor Low Signal	I	-
55	0.5	OG/BK	5764	Exhaust Gas Recirculation Valve Motor High Signal	I	-
56	0.8	BN	582	Throttle Actuator Control Close	I	-
57	0.8	YE	581	Throttle Actuator Control Open	I	-
58–59	-	-	-	Not Occupied	-	-
60	0.5	GY/BK	6272	Low Reference	I	-
61	0.5	WH/BK	6271	CKP Sensor Signal	I	-
62–64	-	-	-	Not Occupied	-	-
65	0.5	D-BU/WH	6265	CMP Sensor Signal	I	-
66	0.5	BN	6266	Low Reference	I	-
67	0.5	BN	6274	Low Reference	I	-
68	0.5	WH	6275	Low Reference	I	-
69	0.8	D-GN/WH	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	I	-
70	0.8	L-GN/WH	4905	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 5	I	-
71	0.8	D-GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	I	-
72	0.8	GY	4808	Direct Fuel Injector (DFI) High Voltage Control Cylinder 8	I	-
73	3	BK/WH	451	Ground	-	-

K27 Fuel Pump Control Module (LMF)



Connector Part Information

Harness Type: Chassis

OEM Connector: 13570966

Service Connector: 89047377

Description: 47-Way F ASG Series (BK)

Terminal Part Information

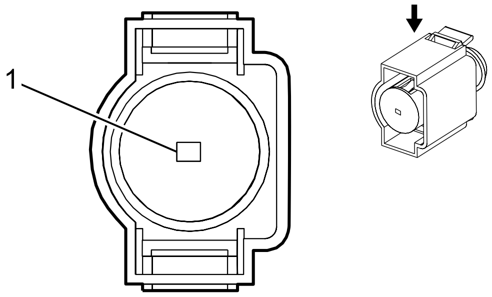
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327187	J-35616-42 (RD)	J-38125-553	15476168	5	F	3
II	Pins: 5–7, 10, 15, 17, 21–22, 36, 44 – 13575378	J-35616-64B (L-BU)	J-38125-215A	SAITS-A03T-M064	14	9	9

K27 Fuel Pump Control Module (LMF)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2	BK	2150	Ground	I	-
2–4	-	-	-	Not Occupied	-	-
5	0.5	GY	7447	Low Reference	II	-
6	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	II	-
7	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	II	-
8–9	-	-	-	Not Occupied	-	-
10	0.5	PU	7446	Fuel Line Pressure Sensor Signal	II	-
11–12	-	-	-	Not Occupied	-	-
13	0.35	D-GN/WH	465	Fuel Pump Relay Control – Primary	II	-
14	-	-	-	Not Occupied	-	-
15	0.5	PK	2739	Ignition Voltage	II	-
16	3	PK	1580	Low Reference	I	-

16	3	PK	1580	Low Reference	I	-
17	0.5	L-BU	5986	Serial Data Communication Enable	II	-
18–20	-	-	-	Not Occupied	-	-
21	0.5	TN	2501	High Speed GMLAN Serial Data Bus (–)	II	-
22	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	II	-
23–31	-	-	-	Not Occupied	-	-
32	2	RD/WH	1940	Battery Positive Voltage	I	-
33–35	-	-	-	Not Occupied	-	-
36	0.5	BN	7445	5-Volt Reference	II	-
37–43	-	-	-	Not Occupied	-	-
44	0.5	BK	1350	Ground	II	-
45–46	-	-	-	Not Occupied	-	-
47	3	GY	120	Fuel Pump Control	I	-

K34 Glow Plug Control Module X1 (LGH)



Connector Part Information

Harness: Battery Positive

OEM: 10852369

Service: Service by Harness - See Part Catalog

Description: 1−Way F 8.0 Series Sealed (BK)

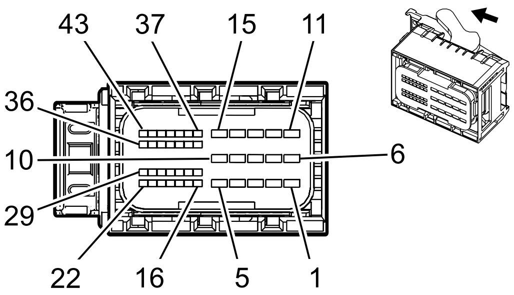
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				Service by Connector Assembly	Service by Connector Assembly	Not Available	Not Available

K34 Glow Plug Control Module X1 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	8	RD	1	Battery Positive Voltage	I	-

K34 Glow Plug Control Module X2 (LGH)



Connector Part Information

Harness: Engine

OEM: 10001042

Service: 13576417

Description: 43-Way F 1.2/ 2.8 Series, Sealed (BK)

Terminal Part Information

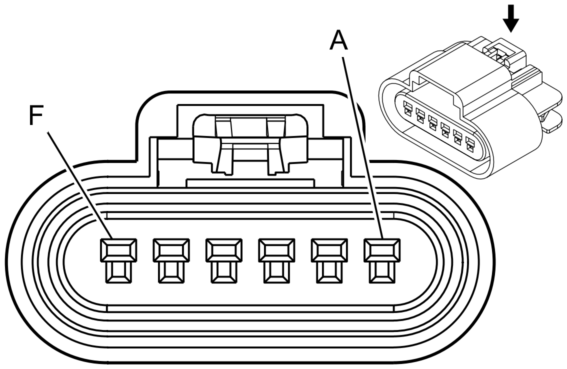
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				22124614190	Pending	Pending	Pending

K34 Glow Plug Control Module X2 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	2	GY/WH	3675	DEF Pump Heater Control	I	-
2	2	WH/YE	1584	Glow Plug 4 Control	I	-
3	2	YE	1583	Glow Plug 3 Control	I	-
4	2	PU/WH	1582	Glow Plug 2 Control	I	-
5	2	PU	1581	Glow Plug 1 Control	I	-
6	1	PU/WH	3199	DEF Pressure Line Heater Control	I	-
7	1	TN	3673	Nox Sensor 1 Ground	I	-
8	2	BK/WH	351	Ground	I	-
9	1	TN/BK	3671	Nox Sensor 2 Ground	I	-
10	2	BK	550	Ground	I	-
11	2	OG/WH	3677	DEF Resevoir Heater Control	I	-
12	2	D-GN	1585	Glow Plug 5 Control	I	-
13	2	D-GN/WH	1586	Glow Plug 6 Control	I	-
14	2	PK	1587	Glow Plug 7 Control	I	-

14	2	PK	1587	Glow Plug 7 Control	I	-
15	2	PK/WH	1588	Glow Plug 8 Control	I	-
16	0.5	D-GN	2924	Intake Air Heater Current Feedback Signal	I	-
17	0.5	PU	2922	Intake Air Heater Digital Response Signal	I	-
18	0.5	TN	2501	High Speed GMLAN Serial Data (-) (1)	I	-
19	0.5	TN	2501	High Speed GMLAN Serial Data (-) (1)	I	-
20–22	-	-	-	Not Occupied	-	-
23	0.5	TN	2925	Intake Air Heater Voltage Feedback Signal	I	-
24	0.5	BK	2923	Intake Air Heater Temperature Signal	I	-
25	0.5	TN/BK	2500	High Speed GMLAN Serial Data (+) (1)	I	-
26	0.5	TN/BK	2500	High Speed GMLAN Serial Data (+) (1)	I	-
27–29	-	-	-	Not Occupied	-	-
30	0.5	OG/BK	2921	Intake Air Heater Switch On/Off Signal	I	-
31	0.5	YE	2920	Intake Air Heater Heart Beat Signal	I	-
32	-	-	-	Not Occupied	-	-
33	0.5	PK	2139	Run/Crank Ignition 1 Voltage	I	-
34–36	-	-	-	Not Occupied	-	-
37	0.5	PU	3674	Nox Sensor 1 Supply Voltage	I	-
38	0.5	GY	3672	Nox Sensor 2 Supply Voltage	I	-
39	-	-	-	Not Occupied	-	-
40	0.5	D-BU	5985	Accessory Wakeup Serial Data	I	-
41–43	-	-	-	Not Occupied	-	-

K35 Ignition Coil Module (LU3)



Connector Part Information

Harness Type: Engine

OEM Connector: 15397577

Service Connector: 88988944

Description: 6-Way F GT 150 Series, Sealed (BK)

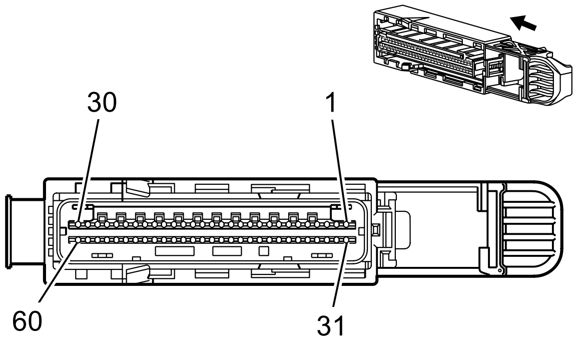
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool
I	Pins: A–D– 13327112	J-35616-2A (GY)	J-38125-553

K35 Ignition Coil Module (LU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	OG/WH	2122	Ignition Coil 2 Control	I	-
B	0.5	PU	2121	Ignition Coil 1 Control	I	-
C	0.5	L-BU	2123	Ignition Coil 3 Control	I	-
D	0.5	BN	2129	Low Reference	I	-
E	0.8	BK	1250	Ground	I	-
F	1	PK	1039	Ignition Voltage	I	-

K36 Inflatable Restraint Sensing and Diagnostic Module



Connector Part Information

Harness Type: Body

OEM Connector: 13549639

Service Connector: 19180985

Description: 60-Way F 64 GET Series, Sealed (YE w/ BK Slide Lock)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13505341	J-35616-64B (L-BU)	J-38125-553	1393365-2	A	Not Available	Not Available

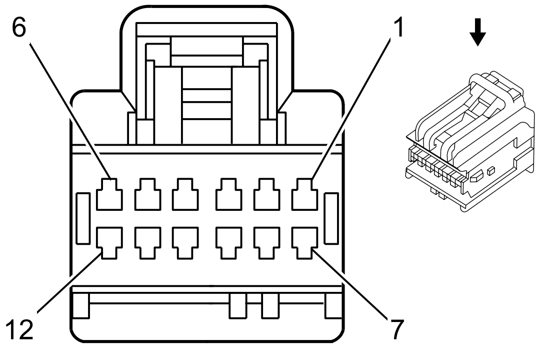
K36 Inflatable Restraint Sensing and Diagnostic Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BK/WH	1751	Ground	I	-
2	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	-
3	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	-
4	0.5	PK	3022	Steering Wheel Module – Stage 2 – Low Control	I	Light Duty
5	0.5	WH	3023	Steering Wheel Module – Stage 2 – High Control	I	Light Duty
6	0.5	GY	3027	Instrument Panel Module – Stage 2 – High Control	I	Light Duty with AK5
7	0.5	PU	3026	Instrument Panel Module – Stage 2 – Low Control	I	Light Duty with AK5
8	0.5	BN	3020	Steering Wheel Module – Stage 1 – Low Control	I	-
9	0.5	TN	3021	Steering Wheel Module – Stage 1 – High Control	I	-
10	0.5	YE	3025	Instrument Panel Module – Stage 1 – High Control	I	-
11	0.5	OG	3024	Instrument Panel Module – Stage 1 – Low Control	I	-
12	0.5	PK	5020	Roof Rail Module – Left – Low Control	I	ASF
13	0.5	PU/WH	5019	Roof Rail Module – Left – High Control	I	ASF

13	0.5	PU/WH	5019	Roof Rail Module – Left – High Control	I	ASF
14	0.5	YE/BK	5021	Roof Rail Module – Right – High Control	I	ASF
15	0.5	WH/BK	5022	Roof Rail Module – Right – Low Control	I	ASF
16–21	-	-	-	Not Occupied	-	-
22	0.5	L-BU	7015	Roof Rail Module – Right Rear High Control	I	Passenger with ASF
23	0.5	TN/BK	7016	Roof Rail Module – Right Rear Low Control	I	Passenger with ASF
24	0.5	OG/BK	2119	Seat Belt Pretensioner – Left – Low Control	I	Light Duty
25	0.5	TN/WH	2118	Seat Belt Pretensioner – Left – High Control	I	Light Duty
26	0.5	L-GN	2116	Seat Belt Pretensioner – Right – High Control	I	Light Duty
27	0.5	OG	2117	Seat Belt Pretensioner – Right – Low Control	I	Light Duty
28	0.5	PK	5057	Low Reference	I	-
29	0.5	L-GN	5055	Seat Position Sensor – Left – Signal	I	Light Duty
30	0.5	L-BU	5056	Seat Position Sensor – Right – Signal	I	Light Duty
31	0.5	RD/WH	3440	Battery Positive Voltage	I	-
32	0.35	PK	1139	Ignition Voltage	I	-
33	0.5	PK	353	Instrument Panel Module Suppression Indicator Control	I	C99
34	0.5	TN/PK	371	Instrument Panel Module Disable Switch – Signal	I	C99
35	-	-	-	Not Occupied	-	-
36	0.5	D-BU/WH	6619	Low Reference	I	-
37	-	-	-	Not Occupied	-	-
38	0.5	BN/WH	6618	Discriminating Sensor – Signal	I	-
39	-	-	-	Not Occupied	-	-
40	0.5	PU/WH	6628	Low Reference	I	ASF
41	0.5	WH/BK	6629	Low Reference	I	ASF
42	0.5	WH	2132	Left Front Side Impact Sensing Module Signal	I	ASF
43	0.5	D-GN	2134	Right Front Side Impact Sensing Module Signal	I	ASF
44	0.5	L-BU	6622	Left Rear Side Impact Sensing Module Signal	I	Passenger with ASF
45	0.5	L-BU/WH	6626	Right Rear Side Impact Sensing Module Signal	I	Passenger with ASF with E24/YA2
46	0.5	L-GN/BK	6623	Low Reference	I	Passenger with ASF

						ASF
47	0.5	PK/BK	6627	Low Reference	I	Passenger with ASF with E24/YA2
48–57	-	-	-	Not Occupied	-	-
58	0.5	YE/BK	5229	Rollover Sensor High Signal	I	ASF
59	0.5	TN/WH	238	Seat Belt Switch – Left	I	-
60	0.5	OG	1362	Seat Belt Switch – Right – Signal	I	Light Duty

K41R Rear Parking Assist Control Module X1 (UD7)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13784026

Service Connector: 13578574

Description: 12-Way F Micro HVT Series (BK)

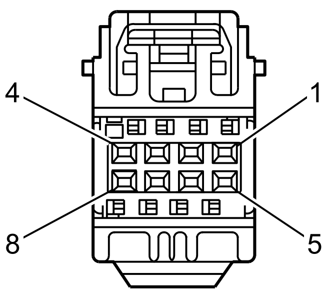
Terminal Part Information

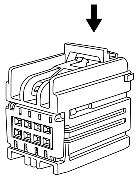
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575550	J-35616-16 (L-GN)	J-38125-559	15445905	23	J	J

K41R Rear Parking Assist Control Module X1 (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/WH	840	Battery Positive Voltage	I	-
2	-	-	-	Not Occupied	-	-
3	-	-	-	Not Occupied	-	-
4	-	-	-	Not Occupied	-	-
5	-	-	-	Not Occupied	-	-
6	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	-
7	0.5	BK/WH	351	Signal Ground	I	-
8	-	-	-	Not Occupied	-	-
9	-	-	-	Not Occupied	-	-
10	-	-	-	Not Occupied	-	-
11	-	-	-	Not Occupied	-	-
12	-	-	-	Not Occupied	-	-

K41R Rear Parking Assist Control Module X2 (UD7)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13551679

Service Connector: 19115653

Description: 8-Way F YESC Kaizen Series (L-GY)

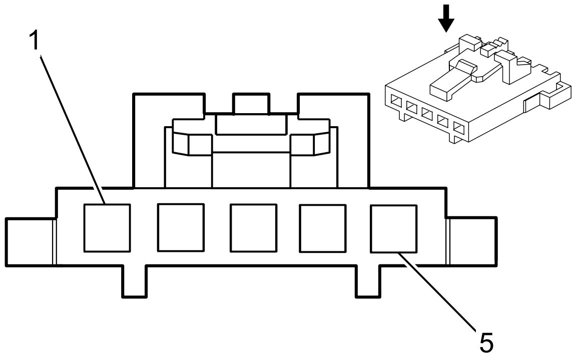
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575867	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

K41R Rear Parking Assist Control Module X2 (UD7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	PU	2378	Right Rear Corner Object Sensor Signal	I	-
2	0.5	D-GN	2377	Right Rear Middle Object Sensor Signal	I	-
3	0.5	OG	2376	Left Rear Middle Object Sensor Signal	I	-
4	0.5	D-BU	2374	Object Sensor Supply Voltage	I	-
5	0.5	YE	2375	Left Rear Corner Object Sensor Signal	I	-
6	-	-	-	Not Occupied	-	-
7	-	-	-	Not Occupied	-	-
8	0.5	GY	2379	Object Sensor Low Reference	I	-

K64 Content Theft Deterrent Control Module



Connector Part Information

Harness Type: Steering Column

OEM Connector: 15383337

Service Connector: 88988353

Description: 5-Way F SL Series (BK)

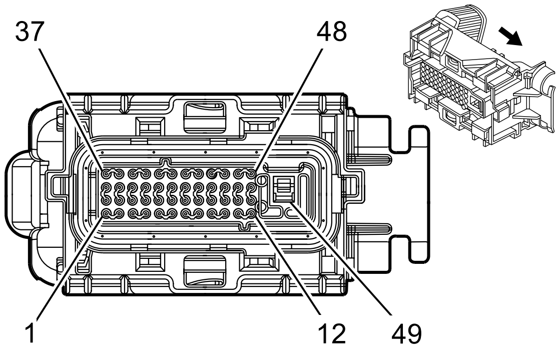
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-64B (L-BU)	J-38125-213	16-02-1110	20	H	H

K64 Content Theft Deterrent Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	RD/WH	540	Battery Positive Voltage	I	-
2	0.35	BN	4	Ignition Voltage	I	-
3	0.35	BK/WH	351	Ground	I	-
4	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	-
5	-	-	-	Not Occupied	-	-

K71 Transmission Control Module (M30)



Connector Part Information

Harness Type: Engine

OEM Connector: 15463921

Service Connector: 88987979

Description: 49-Way F GT 280 Micro-Pack 64 Series, Sealed (BK)

Terminal Part Information

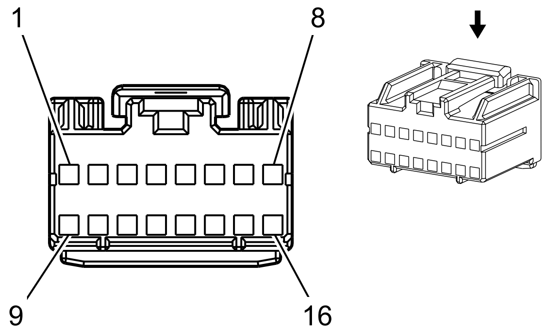
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: 1–2, 5–7, 11, 15–16, 19–20, 25, 31, 37–38, 41–42 – 13575528	J-35616-64B (L-BU)	J-38125-21	15359541	4	M	M
II	13575386	J-35616-4A (PU)	J-38125-553	15392777	23	D	5

K71 Transmission Control Module (M30)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	BN	418	Torque Converter Clutch Pulse Width Modulation (TCC PWM) Solenoid Valve Control	I	-
2	0.5	L-GN	1222	Shift Solenoid A Valve Control	I	-
3	0.5	OG/BK	1230	Automatic Transmission Input Speed Sensor (AT ISS) High Signal	I	-
4	-	-	-	Not Occupied	-	-
5	0.5	OG/BK	6399	Replicated TOS Signal	I	-
6	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	I	-
7	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
8–10	-	-	-	Not Occupied	-	-
11	0.5	D-BU	5985	Accessory Wakeup Serial Data	I	-
12–14	-	-	-	Not Occupied	-	-

15	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	I	-
16	0.5	L-GN/BK	822	Vehicle Speed Sensor (VSS) Low Signal	I	-
17	0.35	L-BU/WH	1229	PC Solenoid Valve Low Control	I	Sol. A
18	-	-	-	Not Occupied	-	-
19	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
20	0.5	YE/BK	1223	Shift Solenoid B Valve Control	I	-
21–22	-	-	-	Not Occupied	-	-
23	0.35	GY	773	Transmission Range Switch Signal C	I	-
24	-	-	-	Not Occupied	-	-
25	0.5	TN/BK	422	Torque Converter Clutch (TCC) Solenoid Valve Control	I	-
26–28	-	-	-	Not Occupied	-	-
29	0.35	TN/WH	771	Transmission Range Switch Signal A	I	-
30	0.35	TN	452	Low Reference	I	-
31	0.5	PK	2139	Ignition Voltage	I	-
32	0.35	RD/WH	1840	Battery Positive Voltage	I	-
33–34	-	-	-	Not Occupied	-	-
35	0.35	YE/BK	1227	Transmission Fluid Temperature (TFT) Sensor Signal	I	-
36	-	-	-	Not Occupied	-	-
37	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	I	-
38	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
39	0.35	WH	776	Transmission Range Switch Signal P	I	-
40	0.35	OG/BK	1228	PC Solenoid Valve High Control	I	Sol. A
41	0.5	PU/WH	821	Vehicle Speed Sensor (VSS) High Signal	I	-
42	0.5	L-BU/WH	6311	Torque Converter Clutch (TCC) Brake Signal	I	-
43–44	-	-	-	Not Occupied	-	-
45	0.35	D-BU/WH	1231	Low Reference	I	-
46	0.35	YE	772	Transmission Range Switch Signal B	I	-
47–48	-	-	-	Not Occupied	-	-
49	2	BK/WH	1551	Ground	-	-

K73 Telematics Communication Interface Control Module X1 (UE1)



Connector Part Information

Harness: Instrument Panel

OEM: 15431362

Service: 15306351

Description: 16-Way F Micro-Pack 100A Series (NA)

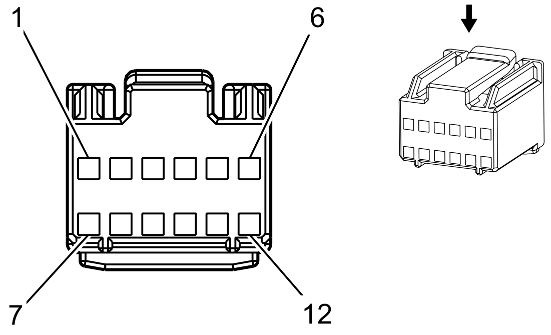
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15445905	23	Pins: 1, 10, 12 – J	J

K73 Telematics Communication Interface Control Module X1 (UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-GN	5060	Low Speed GMLAN Serial Data	I	-
2	0.8	BN/WH	2517	Keypad Red LED Signal	I	-
3	0.8	YE/BK	2516	Keypad Green LED Signal	I	-
4–5	-	-	-	Not Occupied	-	-
6	0.8	L-GN/BK	2515	Keypad Supply Voltage	I	-
7	0.8	BK/WH	351	Ground	I	-
8–9	-	-	-	Not Occupied	-	-
10	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
11	0.8	D-GN/WH	2514	Keypad Signal	I	-
12	0.5	TN	2501	High Speed GMLAN Serial Data Bus (-)	I	-
13–14	-	-	-	Not Occupied	-	-
15	0.8	RD/WH	3240	Battery Positive Voltage	I	-
16	-	-	-	Not Occupied	-	-

K73 Telematics Communication Interface Control Module X2 (UE1)



Connector Part Information

Harness: Instrument Panel

OEM: 15431365

Service: 88952886

Description: 12-Way F Micro-Pack 100A Series (NA)

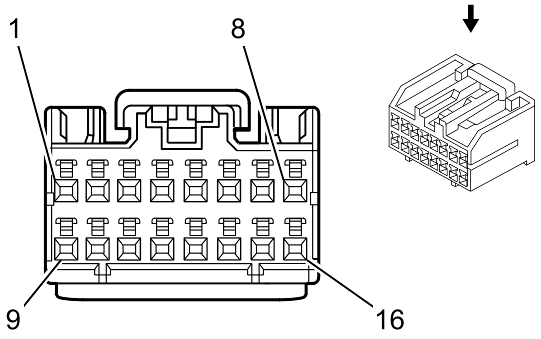
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15445905	23	Pins: 3-4, 8 – J	J

K73 Telematics Communication Interface Control Module X2 (UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	D-BU	658	Cellular Telephone Voice Signal	I	-
2	0.8	L-BU/BK	659	Low Reference	I	-
3	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
4	0.5	TN	2501	High Speed GMLAN Serial Data Bus (-)	I	-
5–7	-	-	-	Not Occupied	-	-
8	0.5	BARE	1792	Drain Wire	I	-
9	0.8	GY	655	Cellular Telephone Voice Signal	I	-
10	0.8	D-GN	654	Low Reference	I	-
11–12	-	-	-	Not Occupied	-	-

K73 Telematics Communication Interface Control Module X3 (UE1)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15431359

Service Connector: Pending

Description: 16-Way F Micro-Pack 100A Series (GY)

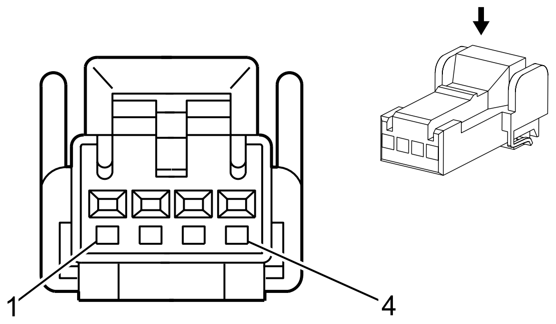
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575546	J-35616-16 (L-GN)	J-38125-559	15445905	23	J	J

K73 Telematics Communication Interface Control Module X3 (UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.35	PK	5149	Voice Recognition Audio Signal	I	-
3	-	-	-	Not Occupied	-	-
4	0.35	PK/BK	5152	Voice Recognition Audio Low Reference	I	-
5	0.35	BARE	1792	Drain Wire	I	-
6–16	-	-	-	Not Occupied	-	-

K77 Remote Control Door Lock Receiver (AU0)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15462684

Service Connector: 13585474

Description: 4-Way F ILAG5 Series (GN)

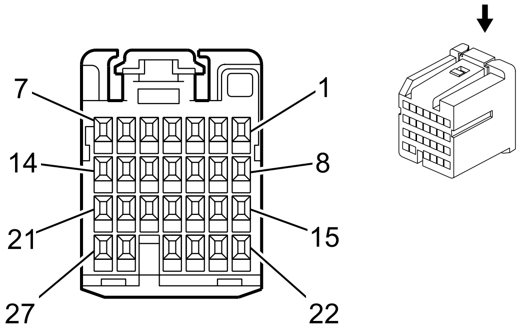
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-64B (L-BU)	J-38125-211	IL-AG5-C1-5000	20	Pin 1 – J	J

K77 Remote Control Door Lock Receiver (AU0)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	RD/WH	5340	Battery Positive Voltage	I	-
2	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	-
3	-	-	-	Not Occupied	-	-
4	0.35	BK/WH	351	Ground	I	-

K9 Body Control Module X1



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15482789

Service Connector: 88988838

Description: 27-Way F HIT Series (L-GN)

Terminal Part Information

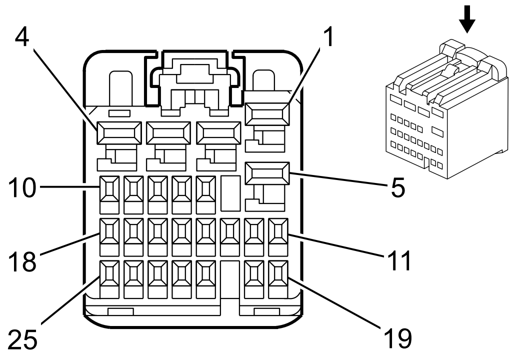
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575870	J-35616-64B (L-BU)	J-38125-12A	SNAC3-A021T-M0.64	20	J	J

K9 Body Control Module X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.35	PK	1020	Ignition Voltage	I	-
3	0.35	GY	1884	Cruise Control Switch Signal	I	-
4	0.35	WH	530	Ignition Voltage	I	-
5	0.35	L-GN	1715	Windshield Wiper Switch High Signal	I	-
6	0.35	L-GN	6818	Steering Wheel Control Signal	I	-
7	-	-	-	Not Occupied	-	-
8	0.35	TN/BK	6009	Low Reference	I	-
9	0.35	L-BU	1714	Windshield Wiper Switch Low Signal	I	-
10–13	-	-	-	Not Occupied	-	-
14	0.35	PK	3	Ignition Voltage	I	-
15	0.35	D-GN	663	Hazard Switch Left Turn Signal	I	-
16	0.35	TN	664	Hazard Switch Turn Right Signal	I	-
17	0.35	PK	1444	12-Volt Reference	I	-

17	0.35	PK	1444	12-Volt Reference	I	-
18	0.35	YE	525	Headlamp Dimmer Switch Low Beam Signal	I	-
19	0.35	WH	111	Theft Deterrent Alarm Enable Signal	I	-
20	0.35	PU	5526	Tap Up/Tap Down Switch Signal	I	-
21	0.35	BN	4	Ignition Voltage	I	-
22	-	-	-	Not Occupied	-	-
23	0.35	L-BU	1788	Tow/Haul Switch Signal	I	-
24	0.35	PK	94	Windshield Washer Switch Signal	I	-
25	0.35	YE	307	Headlamp Switch Flash to Pass Signal	I	-
26	0.5	TN/WH	816	A/T Shift Lock Solenoid Control	I	-
27	-	-	-	Not Occupied	-	-

K9 Body Control Module X2



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15482790

Service Connector: 88988839

Description: 25-Way F HIT Series (NA)

Terminal Part Information

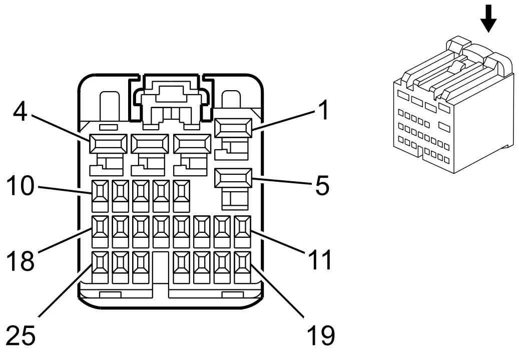
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327199	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	20	E	A
II	13575870	J-35616-64B (L-BU)	J-38125-12A	SNAC3-A021T-M0.64	20	J	J

K9 Body Control Module X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	OG	1732	Courtesy Lamp Control	I	-
2	0.5	RD/WH	2540	Battery Positive Voltage	I	-
3	0.5	BN/WH	230	Instrument Panel Lamps Dimming Control	I	-
4	-	-	-	Not Occupied	-	-
5	0.5 0.8	GY/BK D-BU/WH	690 149	Courtesy Lamp Control Courtesy Lamp Control	I	YF7 without YF7
6–7	-	-	-	Not Occupied	-	-
8	0.35	L-BU	13	Headlamp Switch Park Lamps Signal	II	-
9–10	-	-	-	Not Occupied	-	-
11	0.35	WH	278	Ambient Light Sensor Signal	II	-
12	0.35	WH	103	Headlamp Switch Headlamps On Signal	II	-
13–16	-	-	-	Not Occupied	-	-
17	0.35	D-GN	306	Headlamp Switch Headlamps Off Signal	II	-

17	0.35	D-GN	306	Headlamp Switch Headlamps Off Signal	II	-
18	0.35	D-BU/WH	149	Courtesy Lamp Control	II	-
19–20	-	-	-	Not Occupied	-	-
21	0.5	D-BU	6727	Traction Control Preference Switch Signal	II	JL4
22	0.35	D-BU	38	Backup Lamp Relay Control	II	-
23–24	-	-	-	Not Occupied	-	-
25	0.35	PU	328	Interior Lamp Defeat Switch Signal	II	-

K9 Body Control Module X3



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15482791

Service Connector: 88988840

Description: 25-Way F HIT Series (L-BU)

Terminal Part Information

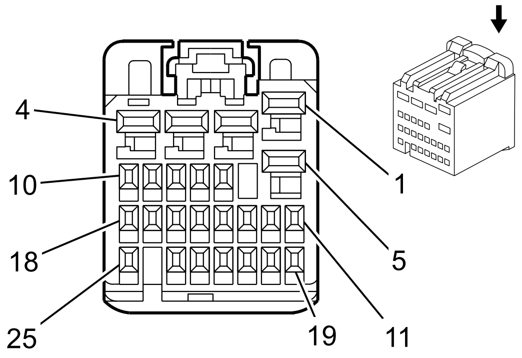
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575871	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	20	E	A
II	13327195	J-35616-64B (L-BU)	J-38125-12A	SNAC3-A021T-M0.64	20	J	J

K9 Body Control Module X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	BK/WH	351	Ground	I	-
2	0.8	RD/WH	2140	Battery Positive Voltage	I	-
3	0.5	RD/WH	3840	Battery Positive Voltage	I	-
4	-	-	-	Not Occupied	-	-
5	0.8	BK/WH	351	Ground	I	-
6–7	-	-	-	Not Occupied	-	-
8	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	II	-
9	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	II	-
10	0.35	D-GN	5060	Low Speed GMLAN Serial Data	II	-
11	0.35	D-GN	44	Instrument Panel Lamps Dimmer Switch Signal	II	-
12	0.35	OG/WH	812	IP Dimming Voltage Reference	II	-
13	0.5	TN	5380	Brake Position Sensor Signal	II	-

14	0.5	BN	5382	Brake Position Sensor Low Reference	II	-
15	0.5	GY	5381	Brake Position Sensor 5 Volt Reference	II	-
16	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	II	-
17	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	II	-
18	0.35	YE	6817	LED Backlight Dimming Control	II	-
19	0.5	L-BU	5986	Serial Data Communication Enable	II	-
20–21	-	-	-	Not Occupied	-	-
22	0.35	D-GN/WH	7158	Cruise Control Indicator Dimming Signal	II	-
23–25	-	-	-	Not Occupied	-	-

K9 Body Control Module X4



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15482792

Service Connector: 88988841

Description: 25-Way F HIT Series (BK)

Terminal Part Information

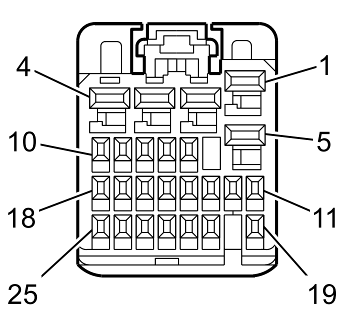
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327199	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	20	E	A
II	13575870	J-35616-64B (L-BU)	J-38125-12A	SNAC3-A021T-M0.64	20	J	J

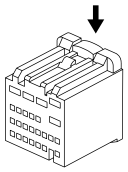
K9 Body Control Module X4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	RD/WH	2740	Battery Positive Voltage	I	-
2	0.8	RD/WH	3040	Battery Positive Voltage	I	-
3	0.8	RD/WH	2940	Battery Positive Voltage	I	-
4	0.8	RD/WH	2240	Battery Positive Voltage	I	-
5	0.8	D-BU/WH	1315	Right Front Turn Signal Lamp Control	I	-
6	0.35	D-GN	6134	Local Interconnect Network 3	II	-
7	0.35	YE	196	Windshield Wiper Motor Park Switch Signal	II	-
8	-	-	-	Not Occupied	-	-
9	0.5	BK/WH	451	Ground	II	LU3 or LMF
10	0.5	RD/WH	2840	Battery Positive Voltage	II	LU3 or LMF
11	0.5	L-GN	1391	Ignition Voltage	II	PRP
12	0.35	YE	5187	Right Trailer Turn Signal Lamp	II	UY7

13	0.35	OG	5186	Left Trailer Turn Signal Lamp	II	UY7
14	-	-	-	Not Occupied	-	-
15	0.35	OG	2268	Windshield Washer Relay Control	II	-
16	0.35	TN/WH	1969	Headlamp High Beam Relay Control	II	-
17–18	-	-	-	Not Occupied	-	-
19	0.5	D-BU	5985	Accessory Wakeup Serial Data	II	-
20	0.5	L-BU	1344	Trunk Release Control	II	PRP
21	0.35	YE	5199	Run/Crank Relay Coil Control	II	-
22	-	-	-	Not Occupied	-	-
23	0.35	PU	544	Headlamp Low Beam Control	II	-
24	0.5	L-BU	244	Front Passenger Door Lock Switch Lock Control	II	PRP
25	-	-	-	Not Occupied	-	-

K9 Body Control Module X5





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15480179

Service Connector: 88988837

Description: 25-Way F HIT Series (BN)

Terminal Part Information

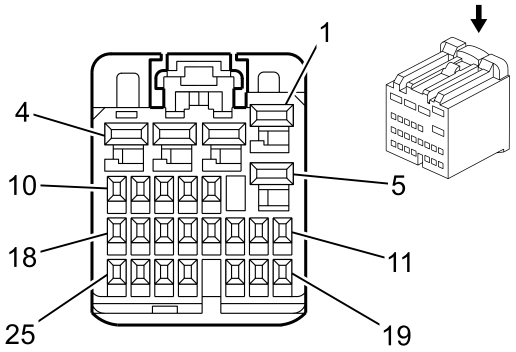
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575870	J-35616-64B (L-BU)	J-38125-12A	SNAC3-A021T-M0.64	20	J	J
II	13327199	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	20	Pins: 1-2 – C	A

K9 Body Control Module X5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	YE	618	Left Rear Turn Signal Lamp Control	II	-
2	1	D-GN	619	Right Rear Turn Signal Lamp Control	II	-
3	-	-	-	Not Occupied	-	-
4	0.8	L-BU/WH	1314	Left Front Turn Signal Lamp Control	II	-
5	0.5	WH	5065	Stop Lamps Control	II	-
6	0.35	L-BU/WH	6311	Torque Converter Clutch (TCC) Brake Signal	I	-
7	-	-	-	Not Occupied	-	-
8	0.5	PK	5076	5-Volt Reference	I	LU3 or LMF
9	0.5	WH	5075	Current Sensor Signal	I	LU3 or LMF
10	0.5	BN	5077	Low Reference	I	LU3 or LMF
11	0.35	YE	43	Ignition Voltage	I	-
12	-	-	-	Not Occupied	-	-

13	0.35	OG	300	Ignition Voltage	I	-
14–15	-	-	-	Not Occupied	-	-
16	0.35	L-BU	1134	Park Brake Switch Signal	I	-
17	-	-	-	Not Occupied	-	-
18	0.35	TN	28	Horn Relay Control	I	-
19	-	-	-	Not Occupied	-	-
20	0.35	GY	91	Windshield Wiper Switch Signal 2	I	-
21	0.35	TN	860	Front Windshield Wiper Switch High Signal	I	-
22	-	-	-	Not Occupied	-	-
23	0.35	PK/WH	1970	Headlamp Low Beam Relay Control	I	-
24	0.35	D-BU	45	Park Lamp Control	I	-
25	-	-	-	Not Occupied	-	-

K9 Body Control Module X6



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15482793

Service Connector: 88988842

Description: 25-Way F HIT Series (PK)

Terminal Part Information

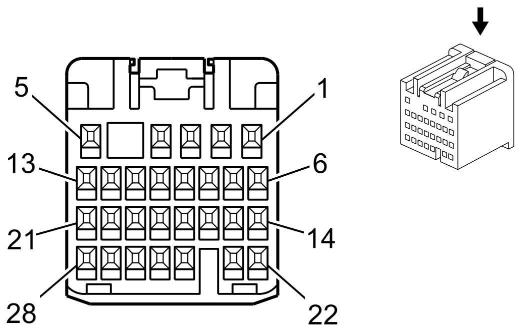
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327199	J-35616-35 (VT)	J-38125-12A	SNAC-A061T-M2.8	20	E	A
II	13575870	J-35616-64B (L-BU)	J-38125-12A	SNAC3-A021T-M0.64	20	J	J

K9 Body Control Module X6

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.8	L-BU	1320	CHMSL Control	-	Passenger or Cargo
3–7	-	-	-	Not Occupied	-	-
8	0.35	TN/WH	746	Right Front Door Ajar Switch Signal	II	-
9	0.35	D-BU	245	Passenger Door Lock Switch Unlock Control	II	AU3
10	0.35	GY/BK	745	Left Front Door Ajar Switch Signal	II	-
11	-	-	-	Not Occupied	-	-
12	0.35	PK/BK	1303	Liftgate Ajar Switch Signal	II	Passenger or Cargo
13	-	-	-	Not Occupied	-	-
14	0.35	YE/BK	1181	Right Rear Door Open Switch Signal	II	Passenger or Cargo
15	0.35	D-BU/WH	1179	Left Rear Door Open Switch Signal	II	E26

16	0.35	L-GN	1177	Right Front Door Open Switch Signal	II	-
17	-	-	-	Not Occupied	-	-
18	0.35	L-BU	244	Passenger Door Lock Switch Lock Control	II	AU3
19–21	-	-	-	Not Occupied	-	-
22	0.35	L-GN	5926	Rear Access Open Switch Signal	II	Passenger or Cargo
23–25	-	-	-	Not Occupied	-	-

K9 Body Control Module X7



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15466053

Service Connector: 88988806

Description: 28-Way F HIT Series (GY)

Terminal Part Information

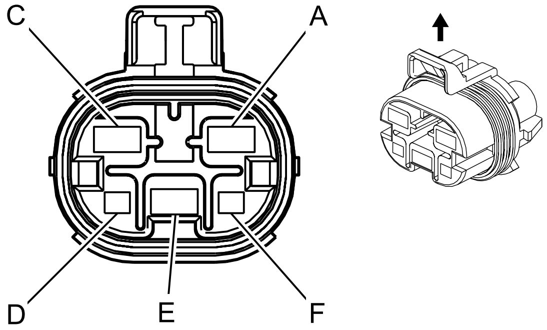
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575870	J-35616-64B (L-BU)	J-38125-12A	SNAC3-A021T-M0.64	20	J	J

K9 Body Control Module X7

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.5	YE	356	Driver Door Lock Relay Unlock Control	I	Passenger or Cargo with AU3
3–5	-	-	-	Not Occupied	-	-
6	0.5	YE	356	Driver Door Lock Relay Unlock Control	I	AU3
7	0.5	L-BU	244	Passenger Door Lock Switch Lock Control	I	AU3
8	-	-	-	Not Occupied	-	-
9	0.5	L-BU	244	Passenger Door Lock Switch Lock Control	I	AU3 without PRP
10	-	-	-	Not Occupied	-	-
11	0.5	OG/BK	781	Driver Door Lock Switch Unlock Signal	I	AU3
12	0.5	PK/BK	780	Driver Door Lock Switch Lock Signal	I	AU3
13–22	-	-	-	Not Occupied	-	-
23	0.5	TN	126	Left Front Door Open Switch Signal	I	-
24	0.5	L-GN	66	A/C Request Signal	I	C60
25–28	-	-	-	Not Occupied	-	-

25–28	-	-	-	Not Occupied	-	-

KR142 LPG Tank Scavange Pump Relay (KO7 with UFP)



Connector Part Information

Harness Type: LPG

OEM Connector: 12052287

Service Connector: 15306002

Description: 5-Way F Metri-Pack 280,630 Series, Sealed (BK)

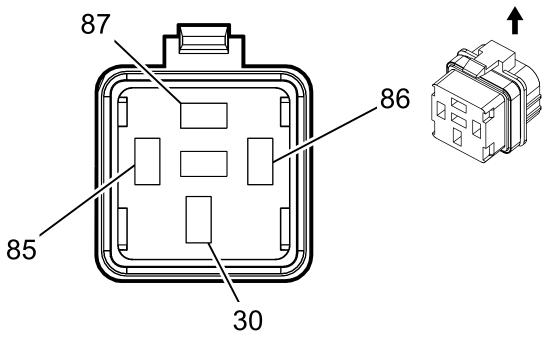
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-4A (PU)	J-38125-11A	12129493	2	4	5

KR142 LPG Tank Scavange Pump Relay (KO7 with UFP)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2.0	RD/WH	—	Scavenge Fuel Pump	I	-
C	-	-	-	Not Occupied	-	-
D	0.8	RD/WH	—	Scavenge Fuel Pump Relay Signal	I	-
E	2.0	RD	—	Battery Positive Voltage	I	-
F	0.8	RD	—	Battery Positive Voltage	I	-

KR143 Wait to Start Indicator Relay



Connector Part Information

Harness Type: LPG Main

OEM Connector: 12065686

Service Connector: 12101881

Description: 4-Way F Metri-Pack 630 Series, (BK)

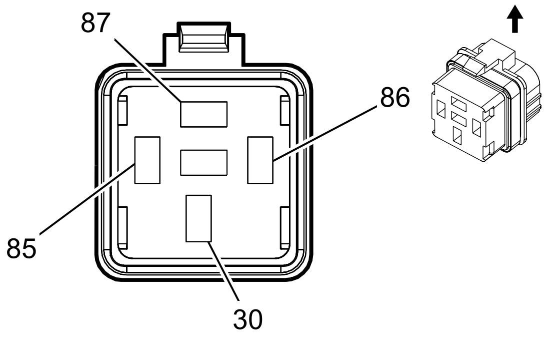
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

KR143 Wait to Start Indicator Relay

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
30	0.5	RD	-	Battery Positive Voltage	I	-
85	0.5	GY	-	Wait To Start Lamp Relay Signal	I	-
86	0.5	RD	-	Battery Positive Voltage	I	-
87	0.5	RD	-	Wait To Start Lamp	I	-

KR152 LPG Bypass Solenoid Valve Relay (KO7 with UFM)



Connector Part Information

Harness Type: LPG Main

OEM Connector: 12065686

Service Connector: 12101881

Description: 4-Way F Metri-Pack 630 Series, (BK)

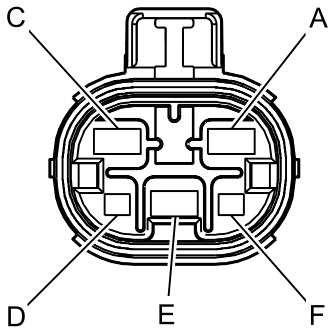
Terminal Part Information

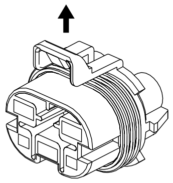
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

KR152 LPG Bypass Solenoid Valve Relay (KO7 with UFM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
30	0.5	RD	-	Battery Positive Voltage	I	-
85	0.5	YE	-	Bypass Solenoid Relay Signal	I	-
86	0.5	RD	-	Battery Positive Voltage	I	-
87	0.8	RD	-	Bypass Solenoid	I	-

KR23B Fuel Pump Relay - Secondary (KO7 with UFP)





Connector Part Information

Harness Type: LPG

OEM Connector: 12052287

Service Connector: 15306002

Description: 5-Way F Metri-Pack 280,630 Series, Sealed (BK)

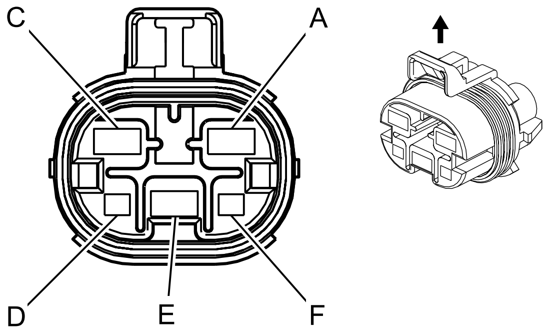
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-4A (PU)	J-38125-11A	12129493	2	4	5

KR23B Fuel Pump Relay - Secondary (KO7 with UFP)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2.0	RD/WH	—	Secondary Fuel Pump/Rear LPG Cut-Off Solenoid Valve	I	-
C	-	-	-	Not Occupied	-	-
D	0.8	RD/WH	—	Secondary Fuel Pump Relay Signal	I	-
E	3.0	RD	—	Battery Positive Voltage	I	-
F	0.8	RD	—	Battery Positive Voltage	I	-

KR23C Fuel Pump Relay - Primary (KO7 with UFP)



Connector Part Information

Harness Type: LPG

OEM Connector: 12052287

Service Connector: 15306002

Description: 5-Way F Metri-Pack 280,630 Series, Sealed (BK)

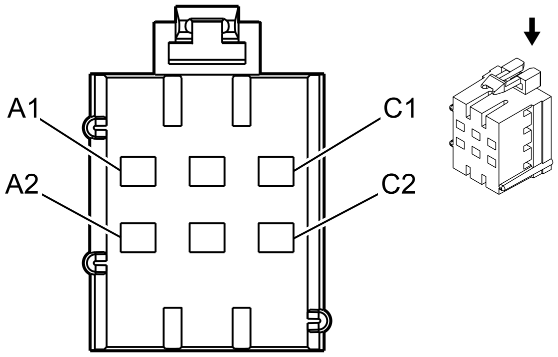
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-4A (PU)	J-38125-11A	12129493	2	4	5

KR23C Fuel Pump Relay - Primary (KO7 with UFP)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2.0	RD/WH	—	Primary Fuel Pump	I	-
C	-	-	-	Not Occupied	-	-
D	0.8	RD/WH	—	Fuel Pump Relay Signal	I	-
E	2.0	RD	—	Battery Positive Voltage	I	-
F	0.8	RD	—	Battery Positive Voltage	I	-

KR32B Blower Motor High Speed Relay - Auxiliary



Connector Part Information

Harness Type: Rear HVAC

OEM Connector: 12129715

Service Connector: 12129715

Description: 6-Way F Metri-Pack 280 Series, Flexlock (GY)

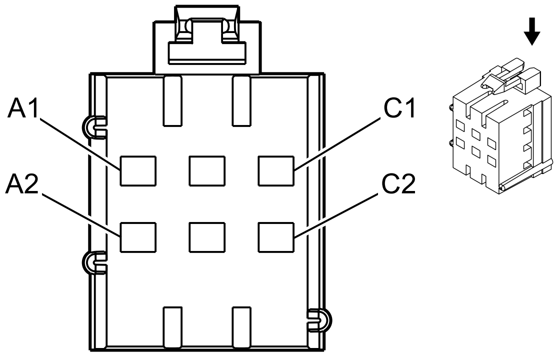
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575721	J-35616-4A (PU)	J-38125-553	12110844	4	E	4
II	Pending	J-35616-4A (PU)	J-38125-11A	15324340	19	F	G

KR32B Blower Motor High Speed Relay - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.35	WH	1924	Auxiliary Blower Motor Low Control	I	-
A2	5	YE	1172	Auxiliary Blower Motor Low Control	II	-
B1–B2	-	-	-	Not Occupied	-	-
C1	5	RD/WH	1740	Battery Positive Voltage	II	-
C2	0.35	BN	341	Ignition Voltage	I	-

KR32C Blower Motor Low Speed Relay - Auxiliary



Connector Part Information

Harness Type: Rear HVAC

OEM Connector: 12129715

Service Connector: 12129715

Description: 6-Way F Metri-Pack 280 Series, Flexlock (GY)

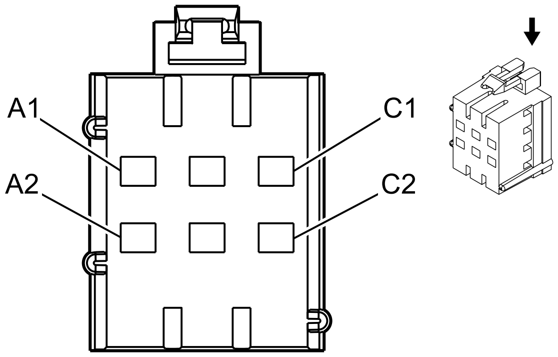
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575721	J-35616-4A (PU)	J-38125-553	12110844	4	E	4
II	Pending	J-35616-4A (PU)	J-38125-11A	15324340	19	F	G

KR32C Blower Motor Low Speed Relay - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.35	D-BU	1926	Auxiliary Blower Motor Low Control	I	-
A2	3	YE	1176	Auxiliary Blower Motor Low Control	II	-
B1	-	-	-	Not Occupied	-	-
B2	-	-	-	Not Occupied	-	-
C1	5	RD/WH	1740	Battery Positive Voltage	II	-
C2	0.35	BN	341	Ignition Voltage	I	-

KR32D Blower Motor Medium Speed Relay - Auxiliary



Connector Part Information

Harness Type: Rear HVAC

OEM Connector: 12129715

Service Connector: 12129715

Description: 6-Way F Metri-Pack 280 Series, Flexlock (GY)

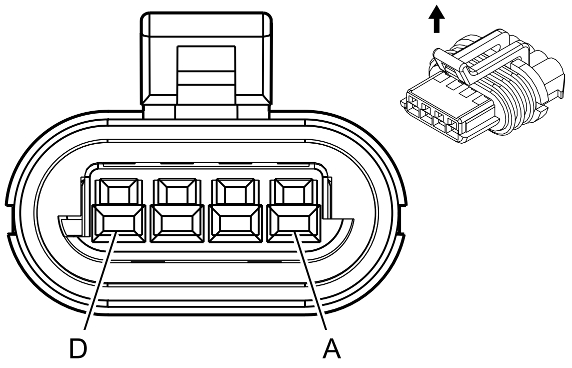
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575721	J-35616-4A (PU)	J-38125-553	12110844	4	E	4
II	Pending	J-35616-4A (PU)	J-38125-11A	15324340	19	F	G

KR32D Blower Motor Medium Speed Relay - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A1	0.35	OG	1925	Auxiliary Blower Motor Medium Control	I	-
A2	3	L-BU	1072	Auxiliary Blower Motor Medium Control	II	-
B1–B2	-	-	-	Not Occupied	-	-
C1	5	RD/WH	1740	Battery Positive Voltage	II	-
C2	0.35	BN	341	Ignition Voltage	I	-

M13 Door Latch Assembly - Rear Cargo X1



Connector Part Information

Harness Type: Right Rear Cargo Door

OEM Connector: 15336846

Service Connector: 19257375

Description: 4-Way F GT 150 Series, Sealed (BU)

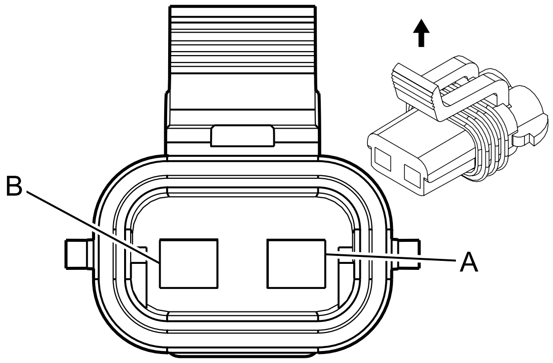
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575400	J-35616-2A (GY)	J-38125-553	15326267	19	E	4

M13 Door Latch Assembly - Rear Cargo X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK/WH	1051	Ground	I	-
B	-	-	-	Not Occupied	-	-
C	0.35	PK/BK	1303	Liftgate Ajar Switch Signal	I	-
D	0.35	L-GN	5926	Rear Access Open Switch Signal	I	-

M13 Door Latch Assembly - Rear Cargo X2



Connector Part Information

Harness Type: Right Rear Cargo Door

OEM Connector: 15300027

Service Connector: 12101855

Description: 2-Way F Metri-Pack 280 Series Sealed (BK)

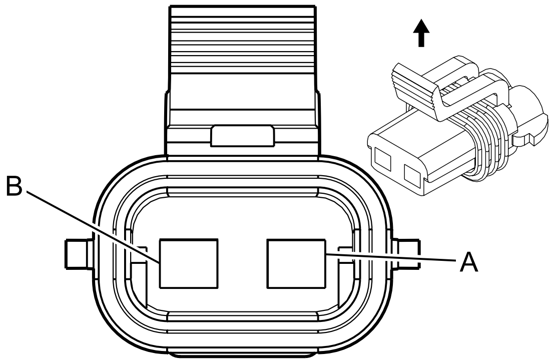
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12176387	3	Not Available	Not Available

M13 Door Latch Assembly - Rear Cargo X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	TN/BK	1095	Right Rear Door Lock Actuator Unlock Control	I	-
B	1	GY	295	Door Lock Actuator Lock Control	I	-

M14LR Door Lock Actuator - Left Rear (E26 with AU3)



Connector Part Information

Harness Type: Left Rear Cargo Door

OEM Connector: 15300027

Service Connector: 12101855

Description: 2-Way F Metri-Pack 280 Series Sealed (BK)

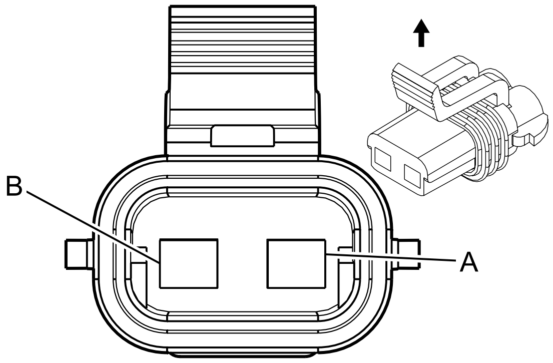
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12077411	2	2	5

M14LR Door Lock Actuator - Left Rear (E26 with AU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	294	Door Lock Actuator Unlock Control	I	-
B	0.8	GY	295	Door Lock Actuator Lock Control	I	-

M14RR Door Lock Actuator - Right Rear (E24 with AU3)



Connector Part Information

Harness Type: Right Rear Cargo Door

OEM Connector: 15300027

Service Connector: 12101855

Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

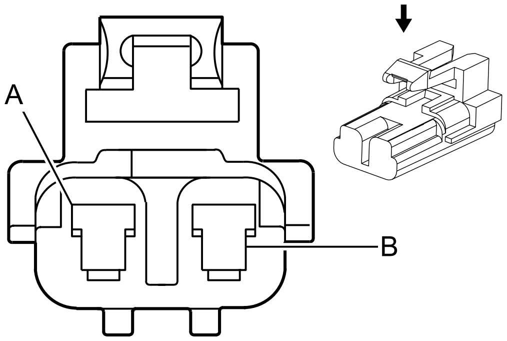
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12077411	2	2	5

M14RR Door Lock Actuator - Right Rear (E24 with AU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	294	Door Lock Actuator Unlock Control	I	-
B	0.8	GY	295	Door Lock Actuator Lock Control	I	-

M14RR Door Lock Actuator - Right Rear (YA2 with AU3)



Connector Part Information

Harness Type: Right Rear Cargo Door

OEM Connector: 12084957

Service Connector: 12126461

Description: 2-Way F Metri-Pack 280 Series (BK)

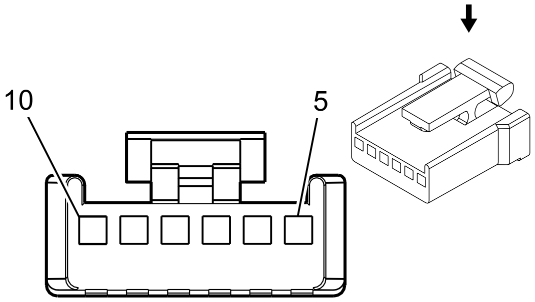
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12034046	2	E	A

M14RR Door Lock Actuator - Right Rear (YA2 with AU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	GY	295	Door Lock Actuator Lock Control	I	-
B	0.8	TN	294	Door Lock Actuator Unlock Control	I	-

M37B Mode Door Actuator - Auxiliary (C69)



Connector Part Information

Harness Type: Rear HVAC

OEM Connector: 12040953

Service Connector: 12102632

Description: 6-Way F Micro-Pack 100 Series (BK)

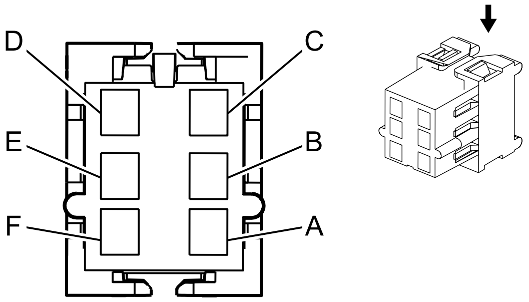
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-6 (BN)	J-38125-13A	12146447	3	E	C

M37B Mode Door Actuator - Auxiliary (C69)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
5–6	-	-	-	Not Occupied	-	-
7	0.35	BK	850	Ground	I	-
8	0.35	GY	2599	Auxiliary Mode Door Control	I	-
9	-	-	-	Not Occupied	-	-
10	0.35	BN	341	Ignition Voltage	I	-

M49D Seat Motor Assembly - Driver (AG1)



Connector Part Information

Harness Type: Driver Seat

OEM Connector: 12015344

Service Connector: 12101900

Description: 6-Way F Metri-Pack 280 Series (BK)

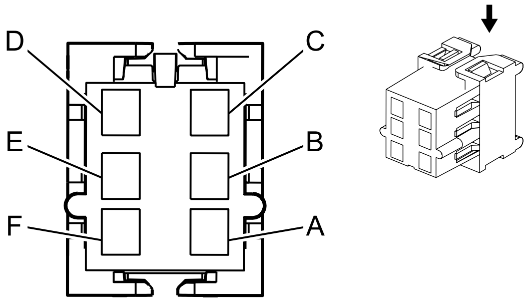
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness– See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M49D Seat Motor Assembly - Driver (AG1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	YE	282	Driver Seat Rear Vertical Motor Up Control	I	-
B	3	L-BU	283	Driver Seat Rear Vertical Motor Down Control	I	-
C	3	TN	285	Driver Seat Horizontal Motor Forward Control	I	-
D	3	L-GN	284	Driver Seat Horizontal Motor Rearward Control	I	-
E	3	D-GN	286	Driver Seat Front Vertical Motor Up Control	I	-
F	3	D-BU	287	Driver Seat Front Vertical Motor Down Control	I	-

M49P Seat Motor Assembly - Passenger (AG2)



Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 12015344

Service Connector: 12101900

Description: 6-Way F Metri-Pack 280 Series (BK)

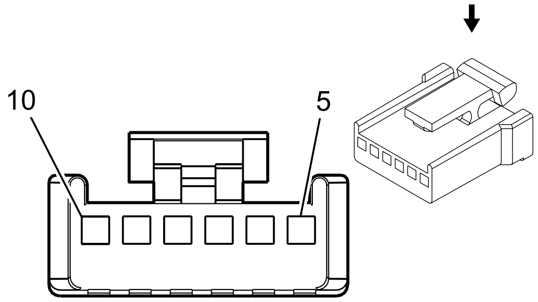
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness– See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M49P Seat Motor Assembly - Passenger (AG2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	YE	288	Passenger Seat Rear Vertical Motor Up Control	I	-
B	3	L-BU	289	Passenger Seat Rear Vertical Motor Down Control	I	-
C	3	TN	296	Passenger Seat Horizontal Motor Forward Control	I	-
D	3	L-GN	290	Passenger Seat Horizontal Motor Rearward Control	I	-
E	3	D-GN	297	Passenger Seat Front Vertical Motor Up Control	I	-
F	3	D-BU	298	Passenger Seat Front Vertical Motor Down Control	I	-

M6 Air Temperature Door Actuator



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12040953

Service Connector: 12102632

Description: 6-Way F Micro-Pack 100 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-6 (BN)	J-38125-13A	Pins: 7, 10 – 12146447	3	E	C

M6 Air Temperature Door Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
5–6	-	-	-	Not Occupied	-	-
7	0.5	BK	550	Ground	I	-
8	0.8	L-BU	733	Air Temperature Door Control	I	-
9	-	-	-	Not Occupied	-	-
10	0.35	BN	341	Ignition Voltage	I	-

M64 Starter Motor X1 (LC8, LMF, LU3, L20 or L96)

Connector Part Information

Harness Type: Battery Positive

OEM Connector: 12176602

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

M64 Starter Motor X1 (LC8, LMF, LU3, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	32	RD	1	Battery Positive Voltage	I	-

M64 Starter Motor X1 (LGH)

Connector Part Information

Harness Type: Battery Positive

OEM Connector: 15358800

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

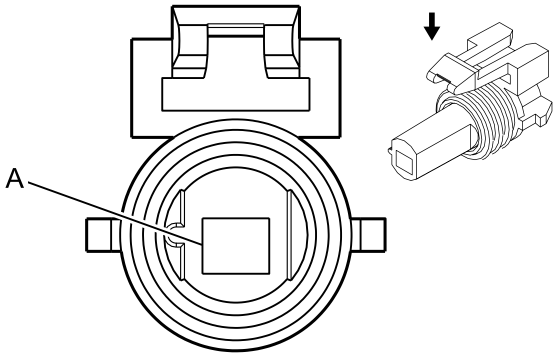
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

M64 Starter Motor X1 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	32	RD	1	Battery Positive Voltage	I	-
	32	RD	1	Battery Positive Voltage		

M64 Starter Motor X2 (LC8, LMF, LU3, L20 or L96)



Connector Part Information

Harness Type: Engine

OEM Connector: 12089916

Service Connector: 12101763

Description: 1-Way F Metri-Pack 280 Series, Sealed (BK)

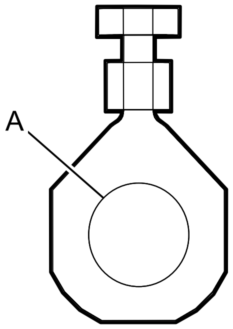
Terminal Part Information

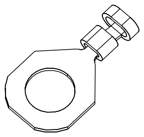
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12176387	3	F	5

M64 Starter Motor X2 (LC8, LMF, LU3, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	5	PU	6	Starter Solenoid Crank Voltage	I	-

M64 Starter Motor X2 (LGH)





Connector Part Information

Harness Type: Engine Chassis

OEM Connector: 2965719

Service Connector: Service by Harness – See Part Catalog

Description: Ring Terminal

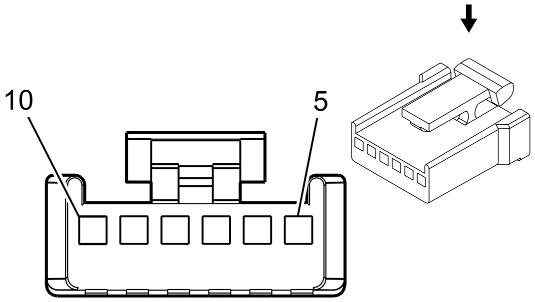
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	No Tool Required	No Tool Required	Not Available	Not Available	Not Available	Not Available

M64 Starter Motor X2 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	5	PU	6	Starter Solenoid Crank Voltage	I	-

M6B Air Temperature Door Actuator - Auxiliary



Connector Part Information

Harness Type: Rear HVAC

OEM Connector: 12040953

Service Connector: 12102632

Description: 6-Way F Micro-Pack 100 Series (BK)

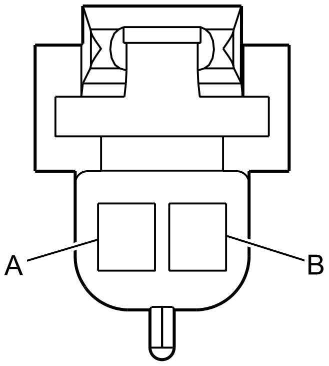
Terminal Part Information

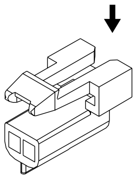
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-6 (BN)	J-38125-13A	12146447	3	E	C

M6B Air Temperature Door Actuator - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
5–6	-	-	-	Not Occupied	-	-
7	0.35	BK	850	Ground	I	-
8	0.35	OG	2775	Auxiliary Air Temperature Door Control	I	-
9	-	-	-	Not Occupied	-	-
10	0.35	BN	341	Ignition Voltage	I	-

M7 Transmission Shift Lock Control Solenoid Actuator





Connector Part Information

Harness Type: Steering Column

OEM Connector: 12052832

Service Connector: 13583033

Description: 2-Way F Metri-Pack 150 Series (BK)

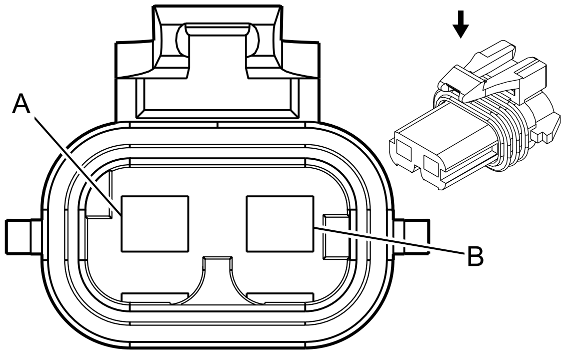
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	5	E	C

M7 Transmission Shift Lock Control Solenoid Actuator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	TN/WH	816	A/T Shift Lock Solenoid Control	I	-
B	0.5	BK	350	Ground	I	-

M74D Window Motor - Driver (A31)



Connector Part Information

Harness Type: Driver Door

OEM Connector: 12129487

Service Connector: 88988609

Description: 2-Way F Metri-Pack 280 Series, Flexlock, Sealed (GY)

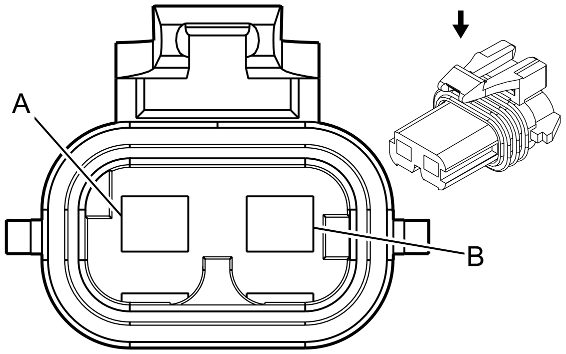
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-553	12110845	4	F	5

M74D Window Motor - Driver (A31)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	BN	165	Power Window Motor Left Front Down Control	I	-
B	3	D-BU	164	Power Window Motor Left Front Up Control	I	-

M74P Window Motor - Passenger (A31)



Connector Part Information

Harness Type: Passenger Door

OEM Connector: 12129487

Service Connector: 88988609

Description: 2-Way F Metri-Pack 280 Series, Flexlock, Sealed (GY)

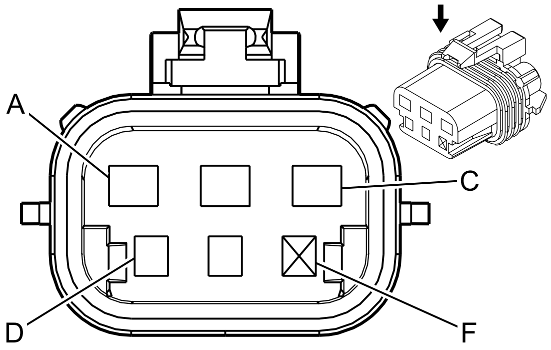
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-553	12110845	4	F	5

M74P Window Motor - Passenger (A31)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	BN	667	Power Window Motor Right Front Down Control	I	-
B	3	D-BU	666	Power Window Motor Right Front Up Control	I	-

M75 Windshield Wiper Motor



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12129126

Service Connector: 88988741

Description: 6-Way F Metri-Pack Mixed Series, Sealed (BK)

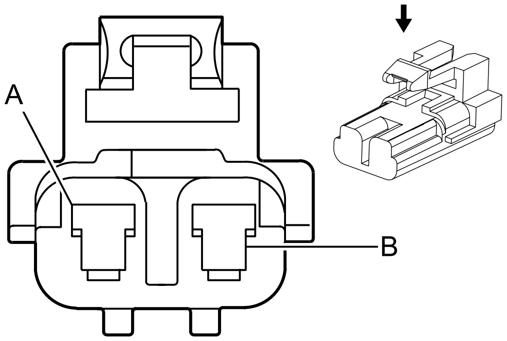
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12129493	2	4	5
II	13575419	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

M75 Windshield Wiper Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	2	BK	1250	Ground	I	-
B	2	D-GN	95	Windshield Washer Switch Signal	I	-
C	2	PU	92	Windshield Wiper Motor High Speed	I	-
D	0.35	BK/WH	351	Ground	II	-
E	0.35	YE	196	Windshield Wiper Motor Park Switch Signal	II	-
F	-	-	-	Not Occupied	-	-

M8 Blower Motor



Connector Part Information

Harness Type: Engine (LU3, L20, LMF or L96)

Harness Type: Engine Chassis (LMM or LGH)

OEM Connector: 12084957

Service Connector: 12126461

Description: 2-Way F Metri-Pack 280 Series (BK)

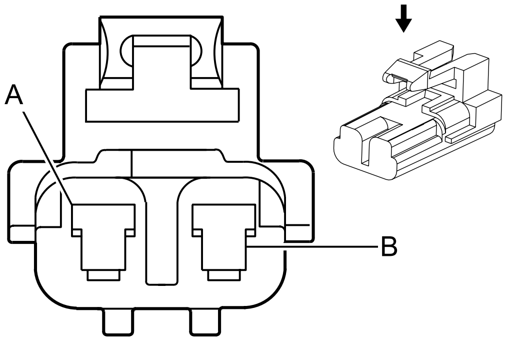
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 12126461	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M8 Blower Motor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	BK	1250	Ground	I	-
B	3	RD	65	Auxiliary Blower Motor Control	I	-

M8 Blower Motor (Diesel)



Connector Part Information

Harness Type: Engine Chassis

OEM Connector: 12084957

Service Connector: 12126461

Description: 2-Way F Metri-Pack 280 Series (BK)

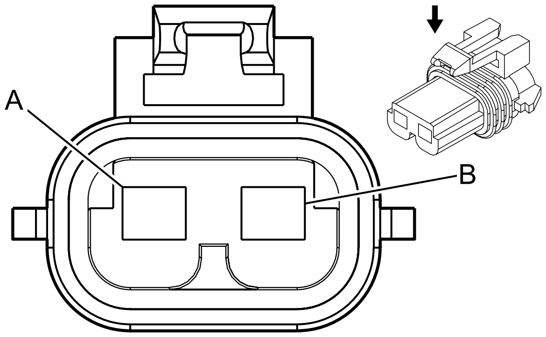
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 12126461	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

M8 Blower Motor (Diesel)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	BK	1250	Ground	I	-
B	3	RD	65	Auxiliary Blower Motor Control	I	-

M8B Blower Motor - Auxiliary



Connector Part Information

Harness Type: Rear HVAC

OEM Connector: 12077900

Service Connector: 12116247

Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

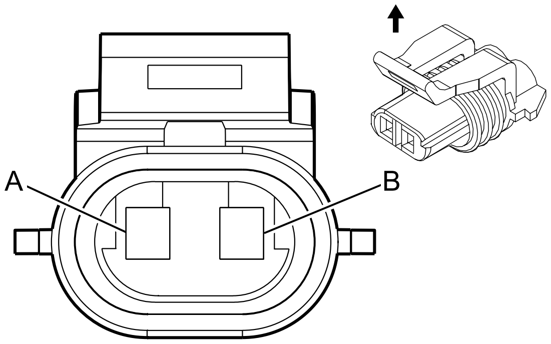
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12077413	4	B	5

M8B Blower Motor - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	5	BK	850	Ground	I	-
B	5	YE	1172	Auxiliary Blower Motor Control	I	-

P13 Horn Assembly



Connector Part Information

Harness Type: Engine (LU3, L20, LMF or L96)

Harness Type: Engine Chassis (LMM or LGH)

OEM Connector: 12052644

Service Connector: 53306302

Description: 2-Way F Metri-Pack 150 Series, Sealed (GY)

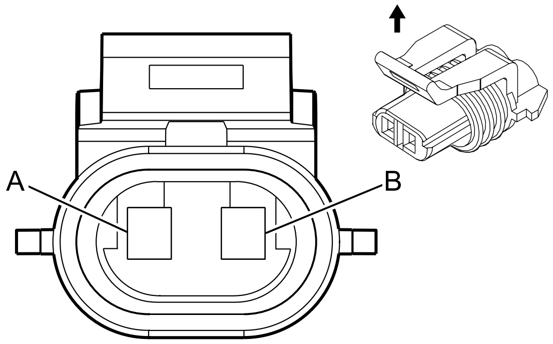
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

P13 Horn Assembly

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	1250	Ground	I	-
B	0.8	D-GN	29	Horn Control	I	-

P13 Horn Assembly (Diesel)



Connector Part Information

Harness Type: Engine Chassis

OEM Connector: 12052644

Service Connector: 15306302

Description: 2-Way F Metri-Pack 150 Series, Sealed (GY)

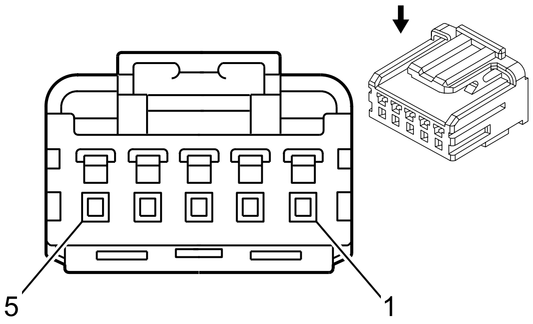
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

P13 Horn Assembly (Diesel)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	1250	Ground	I	-
B	0.8	D-GN	29	Horn Control	I	-

P14 Passenger Air Bag Disable Indicator (Light Duty without YF7)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15398877

Service Connector: 88988112

Description: 5-Way F HCM Series (NA)

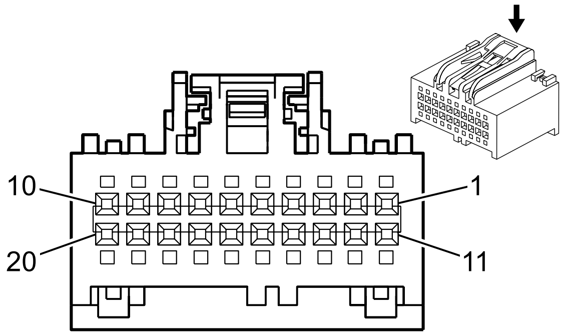
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-64B (L-BU)	J-38125-12A	SHCM-A03T-P025	20	J	J

P14 Passenger Air Bag Disable Indicator (Light Duty without YF7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-BU	2307	Passenger Air Bag On Indicator Control	I	-
2	0.5	BK/WH	351	Ground	I	-
3	0.35	D-GN	2308	Passenger Air Bag Off Indicator Control	I	-
4	0.35	PK	1139	Ignition Voltage	I	-
5	0.35	PU	5234	Passenger Seat Belt Indicator	I	-

P16 Instrument Cluster



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15489824

Service Connector: 15126711

Description: 20-Way F 64 Series (BK)

Terminal Part Information

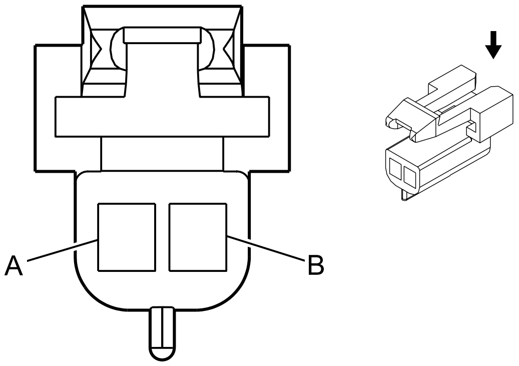
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575845	J-35616-64B (L-BU)	J-38125-215A	SAIT-A03T-M064	14	P	P

P16 Instrument Cluster

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	-
2	-	-	-	Not Occupied	-	-
3	0.5	L-GN	1478	Coolant Level Switch Signal	I	LMM or LGH
4	0.35	BN/WH	419	MIL Control	I	-
5	0.35	PU	5234	Passenger Seat Belt Indicator	I	Light Duty without YF7
6	-	-	-	Not Occupied	-	-
7	0.35	BK/WH	351	Ground	I	-
8	-	-	-	Not Occupied	-	-
9	0.35	D-BU	507	Wait to Start Indicator Control	I	LMM or LGH
10	0.5	D-GN/WH	636	Ambient Air Temperature Sensor Signal	I	UFA
11	0.5	YE	61	Low Reference	I	UFA
12	0.35	D-BU	2307	Passenger Air Bag On Indicator Control	I	Light Duty without YF7
13	0.35	D-GN	2308	Passenger Air Bag Off Indicator Control	I	Light Duty

13	0.35	D-GN	2308	Passenger Air Bag Off Indicator Control	I	Light Duty without YF7
14	0.5	TN/WH	33	Brake Warning Indicator Control	I	-
15	0.5	PU	333	Brake Fluid Level Sensor Signal	I	-
16	0.35	PK	893	Driver Information Center (DIC) Select Menu Switch Signal	I	-
17	0.35	D-GN/WH	1358	Driver Information Center (DIC) Switch Signal	I	-
18	0.35	BN	897	Low Reference	I	-
19	0.35	PK	1639	Ignition Voltage	I	-
20	0.35	RD/WH	2840	Battery Positive Voltage	I	-

P19AG Speaker - Left Front Door



Connector Part Information

Harness Type: Driver Door

OEM Connector: 12052832

Service Connector: 13583033

Description: 2-Way F Metri-Pack 150 Series (BK)

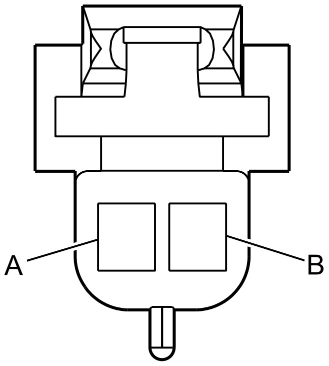
Terminal Part Information

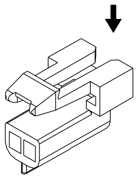
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-14 (GN)	J-38125-12A	15326030	2	E	A

P19AG Speaker - Left Front Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	L-BU	1957	Left Front Midrange Speaker Output (–)	I	-
B	0.8	D-BU	1857	Left Front Midrange Speaker Output (+)	I	-

P19AH Speaker - Right Front Door





Connector Part Information

Harness Type: Passenger Door

OEM Connector: 12052832

Service Connector: 13583033

Description: 2-Way F Metri-Pack 150 Series (BK)

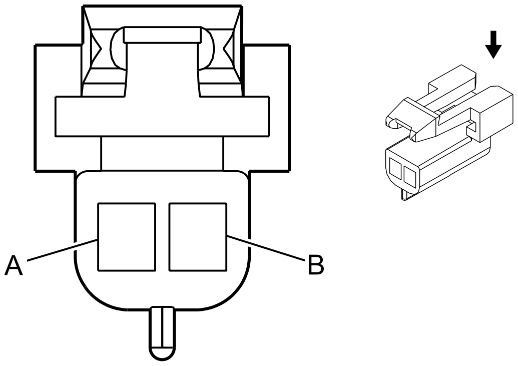
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-14 (GN)	J-38125-12A	15326030	2	E	A

P19AH Speaker - Right Front Door

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	D-GN	1953	Right Front Midrange Speaker Output (–)	I	-
B	0.8	OG	1853	Right Front Midrange Speaker Output (+)	I	-

P19AN Speaker - Left Rear Trim Panel (Passenger or Cargo)



Connector Part Information

Harness Type: Roof Center Speaker

OEM Connector: 12052832

Service Connector: 13583033

Description: 2-Way F Metri-Pack 150 Series (BK)

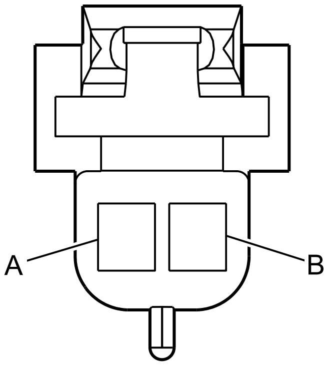
Terminal Part Information

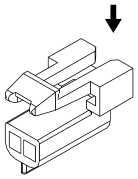
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-14 (GN)	J-38125-12A	15326030	2	E	A

P19AN Speaker - Left Rear Trim Panel (Passenger or Cargo)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	WH	1959	Left Rear Midrange Speaker Output (–)	I	-
B	1	TN	1859	Left Rear Midrange Speaker Output (+)	I	-

P19AP Speaker - Right Rear Trim Panel (Passenger or Cargo)





Connector Part Information

Harness Type: Roof Center Speaker

OEM Connector: 12052832

Service Connector: 13583033

Description: 2-Way F Metri-Pack 150 Series (BK)

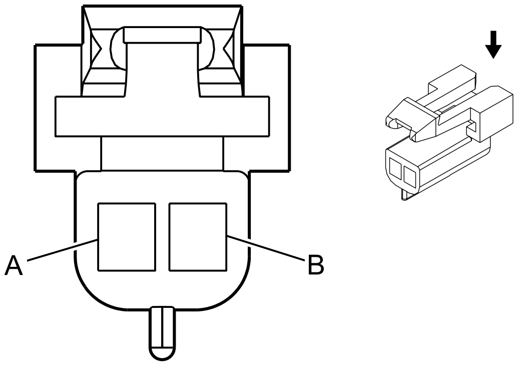
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-14 (GN)	J-38125-12A	15326030	2	E	A

P19AP Speaker - Right Rear Trim Panel (Passenger or Cargo)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	OG	1955	Right Rear Midrange Speaker Output (−)	I	-
B	1	TN	1855	Right Rear Midrange Speaker Output (+)	I	-

P19F Speaker - Left Rear Cargo Door (US8)



Connector Part Information

Harness: Left Rear Cargo Door

OEM: 12052832

Service: 13583033

Description: 2-Way F Metri-Pack 150 Series (BK)

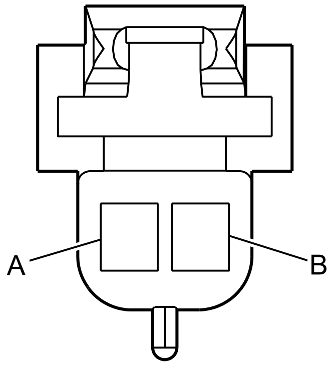
Terminal Part Information

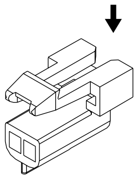
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12047767	2	E	A

P19F Speaker - Left Rear Cargo Door (US8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	WH	1959	Left Rear Midrange Speaker Output (–)	I	-
B	1	TN	1859	Left Rear Midrange Speaker Output (+)	I	-

P19T Speaker - Right Rear Cargo Door (US8)





Connector Part Information

Harness: Right Rear Cargo Door

OEM: 12052832

Service: 13583033

Description: 2-Way F Metri-Pack 150 Series (BK)

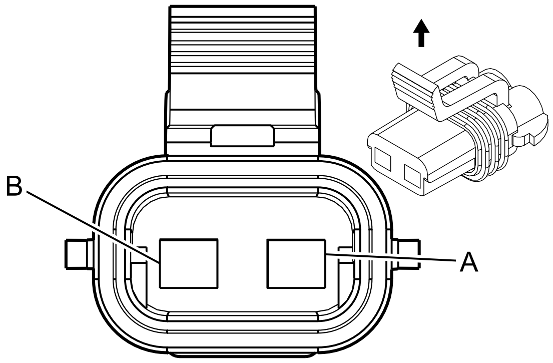
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12047767	2	E	A

P19T Speaker - Right Rear Cargo Door (US8)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	OG	1955	Right Rear Midrange Speaker Output (−)	I	-
B	1	TN	1855	Right Rear Midrange Speaker Output (+)	I	-

P3 Backup Alarm



Connector Part Information

Harness Type: Chassis

OEM Connector: 15300027

Service Connector: 12101855

Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

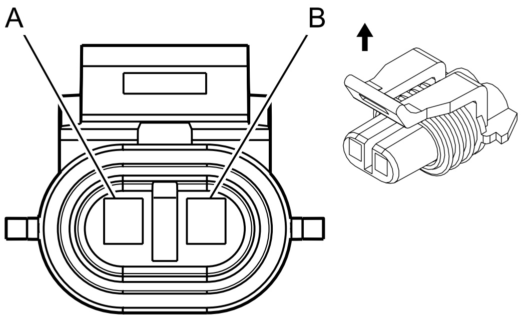
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12077411	2	2	5

P3 Backup Alarm

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	L-GN	1624	Trailer Backup Lamps Control	I	-
B	1	BK	150	Ground	I	-

P44 Wait to Start Indicator



Connector Part Information

Harness Type: LPG Main

OEM Connector: 12052641

Service Connector: 12102747

Description: 2-Way F Metri-Pack 150 Series (BK)

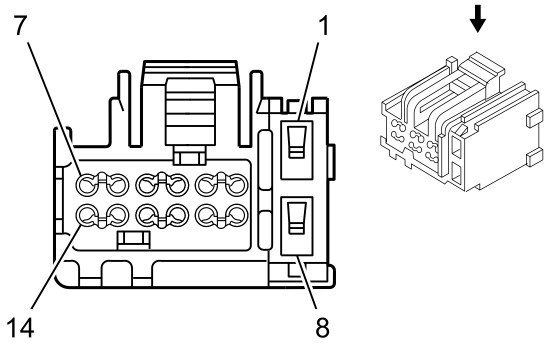
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

P44 Wait to Start Indicator

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	RD	—	Wait to Start Lamp Control	I	-
B	0.35	BK	—	Ground	I	-

P5 Chime Alarm Control Module



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15488568

Service Connector: 88988743

Description: 14-Way F GT 150 Micro 64 Series (BK)

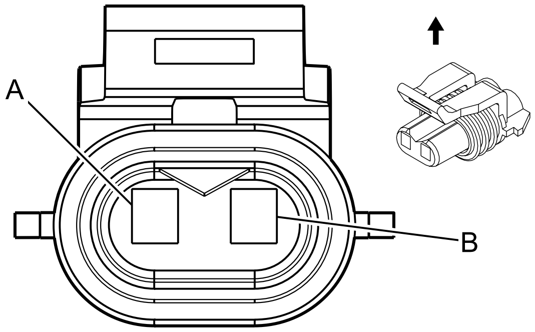
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 88988743	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

P5 Chime Alarm Control Module

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	1	RD/WH	340	Battery Positive Voltage	I	-
2–7	-	-	-	Not Occupied	-	-
8	1	BK/WH	351	Ground	I	-
9–12	-	-	-	Not Occupied	-	-
13	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	-
14	-	-	-	Not Occupied	-	-

Q12 Evaporative Emission Purge Solenoid Valve (LC8, LMF, LU3 L20 or L96)



Connector Part Information

Harness Type: Engine

OEM Connector: 12124037

Service Connector: 13585860

Description: 2-Way F Metri-Pack 150 Series, Sealed (BK)

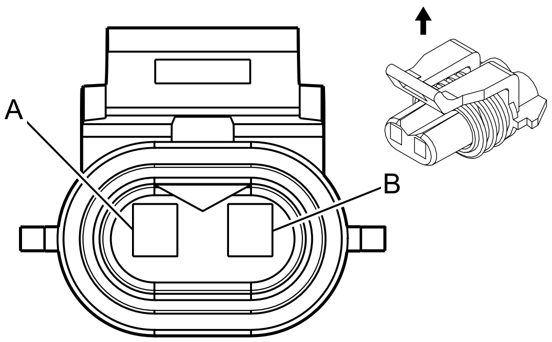
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575419	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

Q12 Evaporative Emission Purge Solenoid Valve (LC8, LMF, LU3 L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	PK	1939	Ignition Voltage	I	-
B	0.5	D-GN/WH	428	Evaporative Emission (EVAP) Canister Purge Solenoid Control	I	-

Q13 Evaporative Emission Vent Solenoid Valve (LC8, LMF, LU3, L20 or L96)



Connector Part Information

Harness Type: Chassis

OEM Connector: 12052643

Service Connector: 13585860

Description: 2-Way F Metri-Pack 150 Series, Sealed (RD)

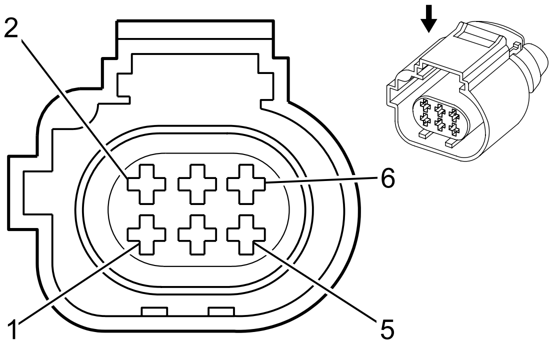
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575419	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

Q13 Evaporative Emission Vent Solenoid Valve (LC8, LMF, LU3, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	RD/WH	40	Battery Positive Voltage	I	-
B	0.5	WH	1310	Evaporative Emission (EVAP) Canister Vent Solenoid Control	I	-

Q14 Exhaust Gas Recirculation Valve (LGH)



Connector Part Information

Harness: Engine

OEM: 284716-3

Service: 13586128

Description: 6-Way F 1.6 Micro-Timer II Series, Sealed (BN)

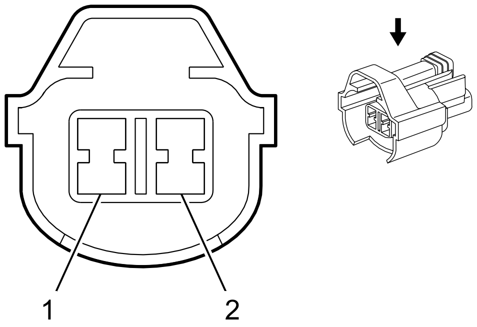
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				4-964274-1	25	E	A

Q14 Exhaust Gas Recirculation Valve (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	GY	2702	5 Volt Reference	I	-
2	0.5	L-GN/BK	5746	Exhaust Gas Recirculation Valve Motor Low Signal	I	-
3	0.5	TN	2753	Low Reference	I	-
4	-	-	-	Not Occupied	-	-
5	0.5	BN/WH	5763	Exhaust Gas Recirculation Valve Sensor Signal	I	-
6	0.5	OG/BK	5764	Exhaust Gas Recirculation Valve Motor High Signal	I	-

Q17A Fuel Injector 1 (LC8 with FHZ)



Connector Part Information

Harness Type: Fuel Injector 1

OEM Connector: FDJ2

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way F Sealed (GY)

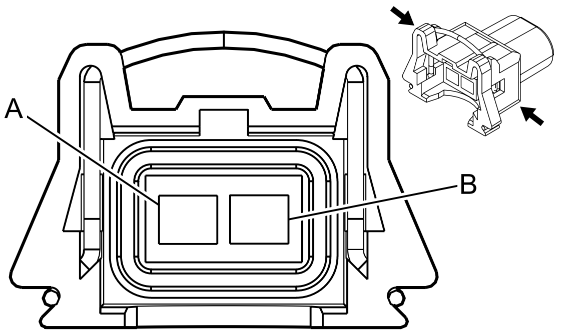
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

Q17A Fuel Injector 1 (LC8 with FHZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	RD	RD	—	Ignition Voltage	I	-
2	GY	GY	—	Fuel Injector 1 Control	I	-

Q17A Fuel Injector 1 (LC8 with KO7 and UFM)



Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: 12129140

Service Connector: 12085491

Description: 2-Way F Metri-Pack 280.1 , Pull To Seat (BK)

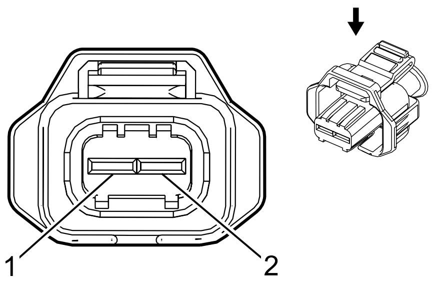
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-4A (PU)	J-38125-559	12077939	18	C	A

Q17A Fuel Injector 1 (LC8 with KO7 and UFM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	RD	—	Ignition Voltage	I	-
B	1	BK	—	Fuel Injector 1 Control	I	-

Q17A Fuel Injector 1 (LGH)



Connector Part Information

Harness: Engine

OEM: 1928404114

Service: 13576410

Description: 2−Way F 2.8 Series Sealed (BK)

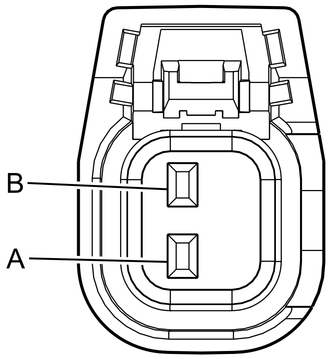
Terminal Part Information

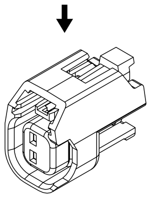
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				1928498054	8	E	1

Q17A Fuel Injector 1 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	BN/WH	4901	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 1	I	-
2	0.8	BN	4801	Direct Fuel Injector (DFI) High Voltage Control Cylinder 1	I	-

Q17A Fuel Injector 1 (LMF, L20 or L96)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

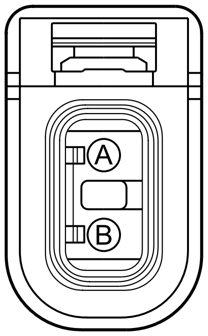
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A– 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A– 2	1

Q17A Fuel Injector 1 (LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	PK	1039	Ignition Voltage	I	-
B	0.5	TN	1744	Fuel Injector 1 Control	I	-

Q17A Fuel Injector 1 (LU3)



Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: 15326181

Service Connector: 88988814

Description: 2-Way F (BK)

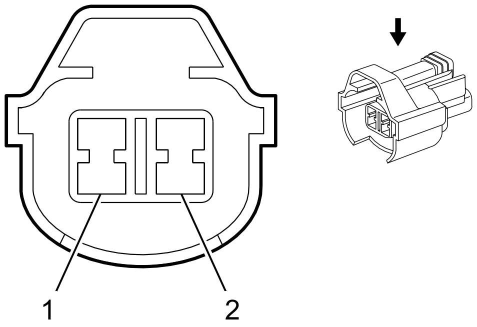
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 15326181	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17A Fuel Injector 1 (LU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	1839	Ignition Voltage	I	-
B	0.5	BK	1744	Fuel Injector 1 Control	I	-

Q17B Fuel Injector 2 (LC8 with FHZ)



Connector Part Information

Harness Type: Fuel Injector 2

OEM Connector: FDJ2

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way F Sealed (GY)

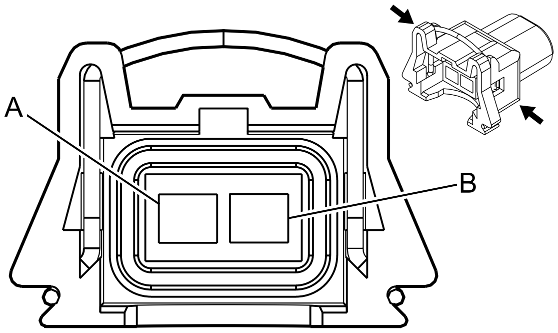
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

Q17B Fuel Injector 2 (LC8 with FHZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	RD	RD	—	Ignition Voltage	I	-
2	GY	GY	—	Fuel Injector 2 Control	I	-

Q17B Fuel Injector 2 (LC8 with KO7 and UFM)



Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: 12129140

Service Connector: 12085491

Description: 2-Way F Metri-Pack 280.1 , Pull To Seat (BK)

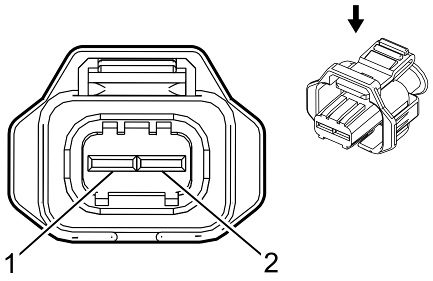
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-4A (PU)	J-38125-559	12077939	18	C	A

Q17B Fuel Injector 2 (LC8 with KO7 and UFM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	RD	—	Ignition Voltage	I	-
B	1	BK	—	Fuel Injector 2 Control	I	-

Q17B Fuel Injector 2 (LGH)



Connector Part Information

Harness: Engine

OEM: 1928404114

Service: 13576410

Description: 2−Way F 2.8 Series Sealed (BK)

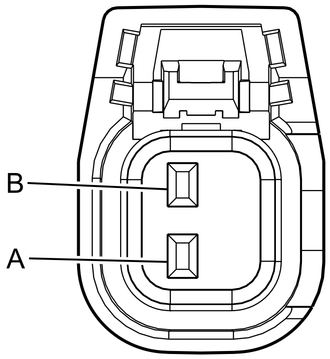
Terminal Part Information

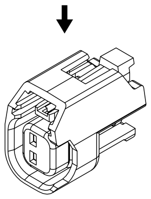
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				1928498054	8	E	1

Q17B Fuel Injector 2 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	D-BU/WH	4902	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 2	I	-
2	0.8	D-BU	4802	Direct Fuel Injector (DFI) High Voltage Control Cylinder 2	I	-

Q17B Fuel Injector 2 (LMF, L20 or L96)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

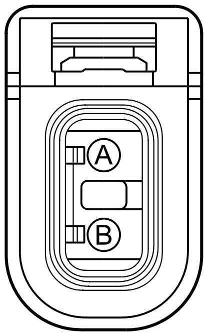
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A– 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A– 2	1

Q17B Fuel Injector 2 (LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	PK	1239	Ignition Voltage	I	-
B	0.5	L-GN/BK	1745	Fuel Injector 2 Control	I	-

Q17B Fuel Injector 2 (LU3)



Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: 15326181

Service Connector: 88988814

Description: 2-Way F (BK)

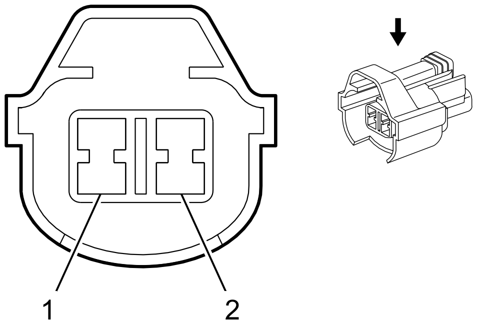
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 15326181	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17B Fuel Injector 2 (LU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	1839	Ignition Voltage	I	-
B	0.5	BK	1745	Fuel Injector 2 Control	I	-

Q17C Fuel Injector 3 (LC8 with FHZ)



Connector Part Information

Harness Type: Fuel Injector 3

OEM Connector: FDJ2

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way F Sealed (GY)

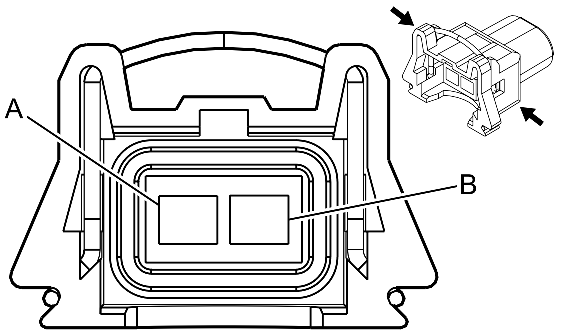
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

Q17C Fuel Injector 3 (LC8 with FHZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	RD	RD	—	Ignition Voltage	I	-
2	GY	GY	—	Fuel Injector 3 Control	I	-

Q17C Fuel Injector 3 (LC8 with KO7 and UFM)



Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: 12129140

Service Connector: 12085491

Description: 2-Way F Metri-Pack 280.1 , Pull To Seat (BK)

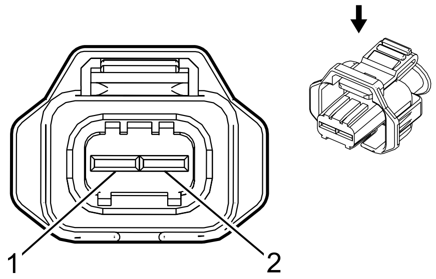
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-4A (PU)	J-38125-559	12077939	18	C	A

Q17C Fuel Injector 3 (LC8 with KO7 and UFM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	RD	—	Ignition Voltage	I	-
B	1	BK	—	Fuel Injector 3 Control	I	-

Q17C Fuel Injector 3 (LGH)



Connector Part Information

Harness: Engine

OEM: 1928404114

Service: 13576410

Description: 2−Way F 2.8 Series Sealed (BK)

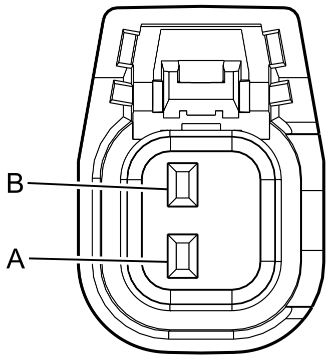
Terminal Part Information

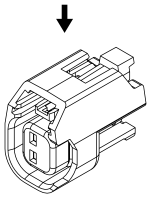
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				1928498054	8	E	1

Q17C Fuel Injector 3 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	D-GN/WH	4903	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 3	I	-
2	0.8	D-GN	4803	Direct Fuel Injector (DFI) High Voltage Control Cylinder 3	I	-

Q17C Fuel Injector 3 (LMF, L20 or L96)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

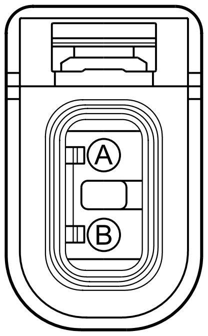
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A–13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A– 2	1

Q17C Fuel Injector 3 (LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	PK	1039	Ignition Voltage	I	-
B	0.5	PK/BK	1746	Fuel Injector 3 Control	I	-

Q17C Fuel Injector 3 (LU3)



Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: 15326181

Service Connector: 88988814

Description: 2-Way F (BK)

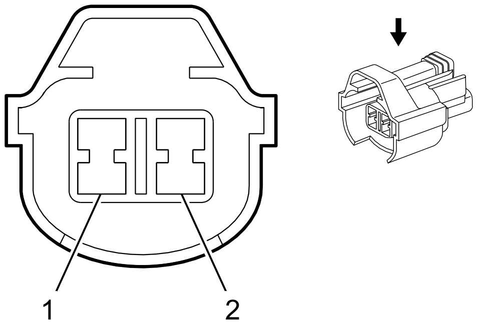
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 15326181	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17C Fuel Injector 3 (LU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	1839	Ignition Voltage	I	-
B	0.5	BK	1746	Fuel Injector 3 Control	I	-

Q17D Fuel Injector 4 (LC8 with FHZ)



Connector Part Information

Harness Type: Fuel Injector 4

OEM Connector: FDJ2

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way F Sealed (GY)

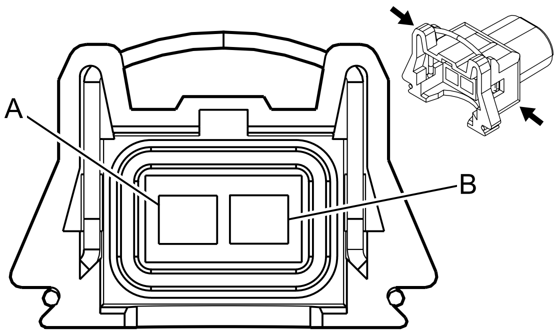
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

Q17D Fuel Injector 4 (LC8 with FHZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	RD	RD	—	Ignition Voltage	I	-
2	GY	GY	—	Fuel Injector 4 Control	I	-

Q17D Fuel Injector 4 (LC8 with KO7 and UFM)



Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: 12129140

Service Connector: 12085491

Description: 2-Way F Metri-Pack 280.1 , Pull To Seat (BK)

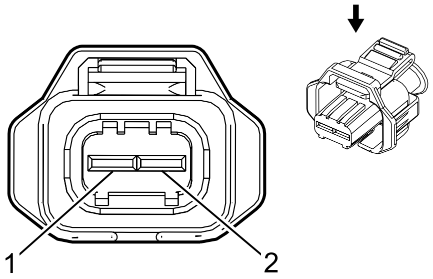
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-4A (PU)	J-38125-559	12077939	18	C	A

Q17D Fuel Injector 4 (LC8 with KO7 and UFM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	RD	—	Ignition Voltage	I	-
B	1	BK	—	Fuel Injector 4 Control	I	-

Q17D Fuel Injector 4 (LGH)



Connector Part Information

Harness: Engine

OEM: 1928404114

Service: 13576410

Description: 2−Way F 2.8 Series Sealed (BK)

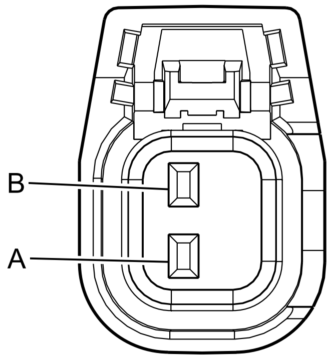
Terminal Part Information

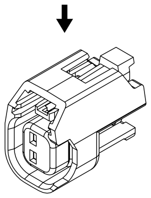
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				1928498054	8	E	1

Q17D Fuel Injector 4 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	L-BU/WH	4904	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 4	I	-
2	0.8	L-BU	4804	Direct Fuel Injector (DFI) High Voltage Control Cylinder 4	I	-

Q17D Fuel Injector 4 (LMF, L20 or L96)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

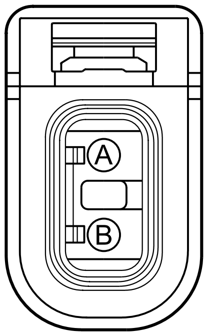
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A– 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A– 2	1

Q17D Fuel Injector 4 (LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	PK	1239	Ignition Voltage	I	-
B	0.5	L-BU/BK	844	Fuel Injector 4 Control	I	-

Q17D Fuel Injector 4 (LU3)



Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: 15326181

Service Connector: 88988814

Description: 2-Way F (BK)

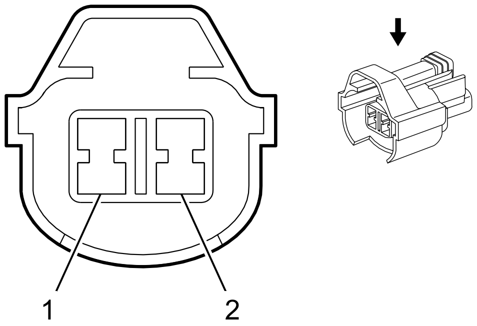
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 15326181	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17D Fuel Injector 4 (LU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	1839	Ignition Voltage	I	-
B	0.5	BK	844	Fuel Injector 4 Control	I	-

Q17E Fuel Injector 5 (LC8 with FHZ)



Connector Part Information

Harness Type: Fuel Injector 5

OEM Connector: FDJ2

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way F Sealed (GY)

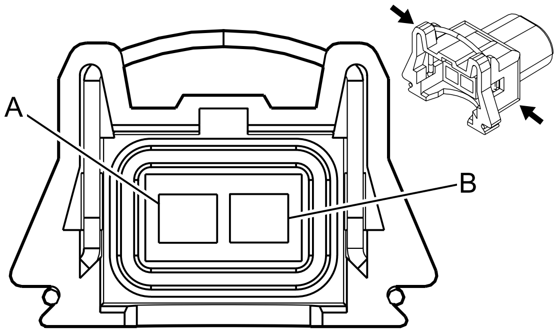
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

Q17E Fuel Injector 5 (LC8 with FHZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	RD	RD	—	Ignition Voltage	I	-
2	GY	GY	—	Fuel Injector 5 Control	I	-

Q17E Fuel Injector 5 (LC8 with KO7 and UFM)



Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: 12129140

Service Connector: 12085491

Description: 2-Way F Metri-Pack 280.1 , Pull To Seat (BK)

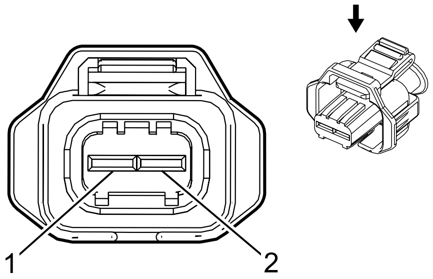
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-4A (PU)	J-38125-559	12077939	18	C	A

Q17E Fuel Injector 5 (LC8 with KO7 and UFM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	RD	—	Ignition Voltage	I	-
B	1	BK	—	Fuel Injector 5 Control	I	-

Q17E Fuel Injector 5 (LGH)



Connector Part Information

Harness: Engine

OEM: 1928404114

Service: 13576410

Description: 2−Way F 2.8 Series Sealed (BK)

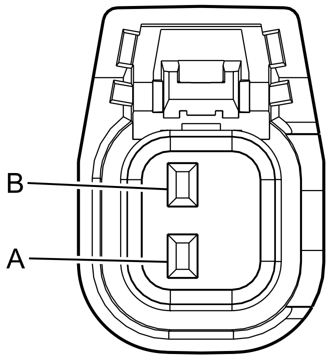
Terminal Part Information

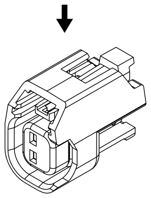
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				1928498054	8	E	1

Q17E Fuel Injector 5 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	L-GN/WH	4905	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 5	I	-
2	0.8	L-GN	4805	Direct Fuel Injector (DFI) High Voltage Control Cylinder 5	I	-

Q17E Fuel Injector 5 (LMF, L20 or L96)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

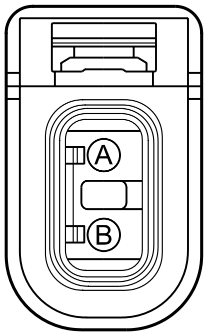
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A–13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A– 2	1

Q17E Fuel Injector 5 (LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	PK	1039	Ignition Voltage	I	-
B	0.5	TN/WH	845	Fuel Injector 5 Control	I	-

Q17E Fuel Injector 5 (LU3)



Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: 15326181

Service Connector: 88988814

Description: 2-Way F (BK)

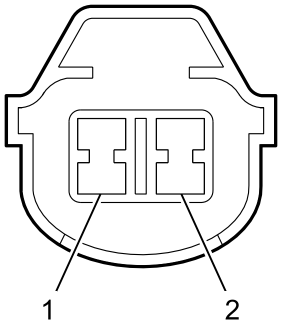
Terminal Part Information

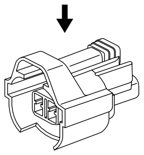
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 15326181	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17E Fuel Injector 5 (LU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	1839	Ignition Voltage	I	-
B	0.5	BK	845	Fuel Injector 5 Control	I	-

Q17F Fuel Injector 6 (LC8 with FHZ)





Connector Part Information

Harness Type: Fuel Injector 6

OEM Connector: FDJ2

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way F Sealed (GY)

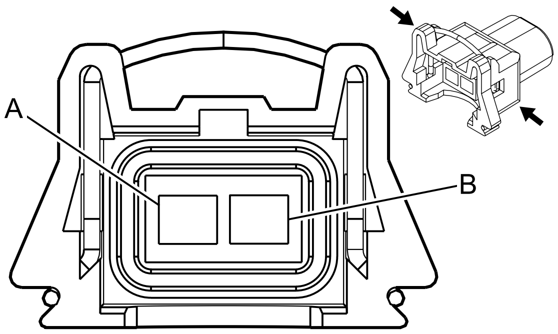
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

Q17F Fuel Injector 6 (LC8 with FHZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	RD	RD	—	Ignition Voltage	I	-
2	GY	GY	—	Fuel Injector 6 Control	I	-

Q17F Fuel Injector 6 (LC8 with KO7 and UFM)



Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: 12129140

Service Connector: 12085491

Description: 2-Way F Metri-Pack 280.1 , Pull To Seat (BK)

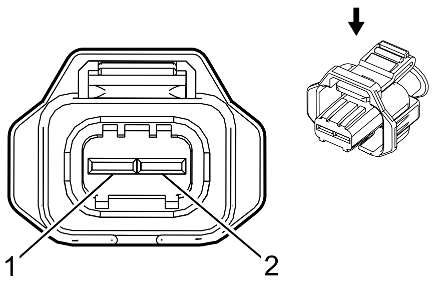
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-4A (PU)	J-38125-559	12077939	18	C	A

Q17F Fuel Injector 6 (LC8 with KO7 and UFM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	RD	—	Ignition Voltage	I	-
B	1	BK	—	Fuel Injector 6 Control	I	-

Q17F Fuel Injector 6 (LGH)



Connector Part Information

Harness: Engine

OEM: 1928404114

Service: 13576410

Description: 2−Way F 2.8 Series Sealed (BK)

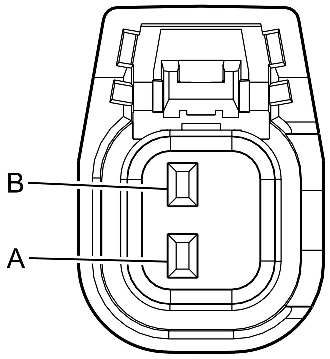
Terminal Part Information

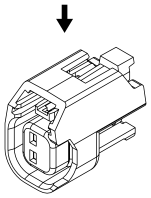
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				1928498054	8	E	1

Q17F Fuel Injector 6 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	PU/WH	4906	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 6	I	-
2	0.8	PU	4806	Direct Fuel Injector (DFI) High Voltage Control Cylinder 6	I	-

Q17F Fuel Injector 6 (LMF, L20 or L96)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

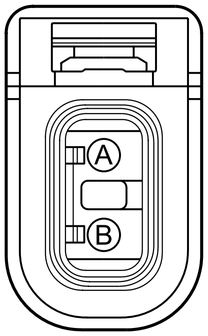
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A– 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A– 2	1

Q17F Fuel Injector 6 (LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	PK	1239	Ignition Voltage	I	-
B	0.5	YE/BK	846	Fuel Injector 6 Control	I	-

Q17F Fuel Injector 6 (LU3)



Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: 15326181

Service Connector: 88988814

Description: 2-Way F (BK)

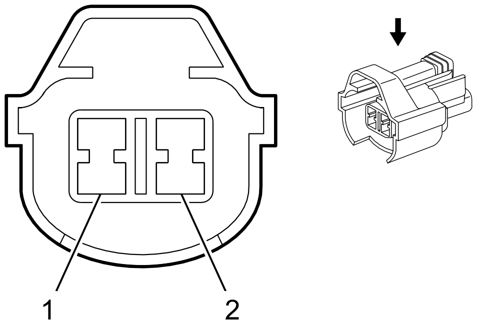
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 15326181	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q17F Fuel Injector 6 (LU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	1839	Ignition Voltage	I	-
B	0.5	BK	846	Fuel Injector 6 Control	I	-

Q17G Fuel Injector 7 (LC8 with FHZ)



Connector Part Information

Harness Type: Fuel Injector 7

OEM Connector: FDJ2

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way F Sealed (GY)

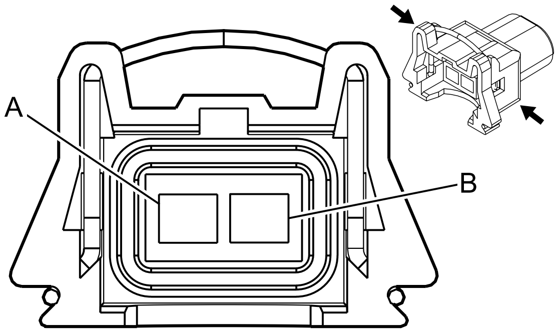
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

Q17G Fuel Injector 7 (LC8 with FHZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	RD	RD	—	Ignition Voltage	I	-
2	GY	GY	—	Fuel Injector 7 Control	I	-

Q17G Fuel Injector 7 (LC8 with KO7 and UFM)



Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: 12129140

Service Connector: 12085491

Description: 2-Way F Metri-Pack 280.1 , Pull To Seat (BK)

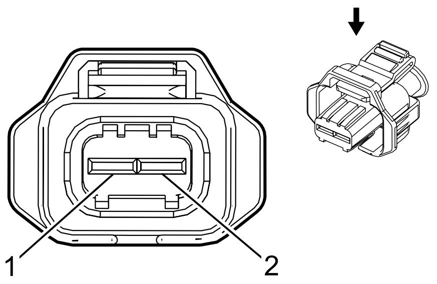
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-4A (PU)	J-38125-559	12077939	18	C	A

Q17G Fuel Injector 7 (LC8 with KO7 and UFM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	RD	—	Ignition Voltage	I	-
B	1	BK	—	Fuel Injector 7 Control	I	-

Q17G Fuel Injector 7 (LGH)



Connector Part Information

Harness: Engine

OEM: 1928404114

Service: 13576410

Description: 2−Way F 2.8 Series Sealed (BK)

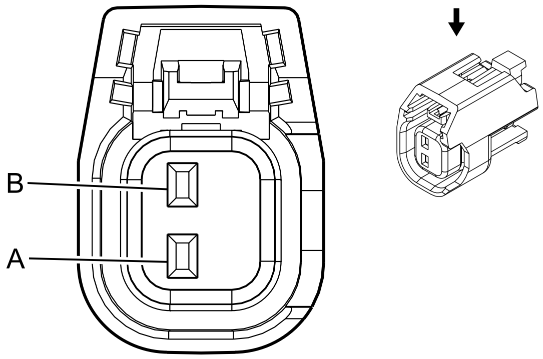
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				1928498054	8	E	1

Q17G Fuel Injector 7 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	TN/WH	4907	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 7	I	-
2	0.8	TN	4807	Direct Fuel Injector (DFI) High Voltage Control Cylinder 7	I	-

Q17G Fuel Injector 7 (LMF, L20 or L96)



Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

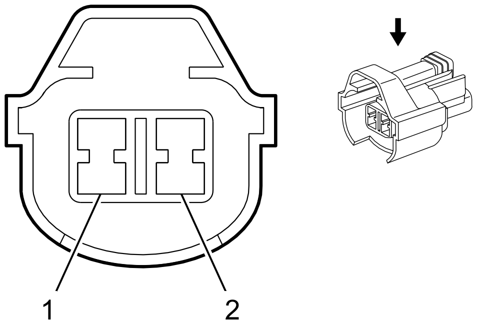
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A– 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A– 2	1

Q17G Fuel Injector 7 (LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	PK	1039	Ignition Voltage	I	-
B	0.5	OG/BK	877	Fuel Injector 7 Control	I	-

Q17H Fuel Injector 8 (LC8 with FHZ)



Connector Part Information

Harness Type: Fuel Injector 8

OEM Connector: FDJ2

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way F Sealed (GY)

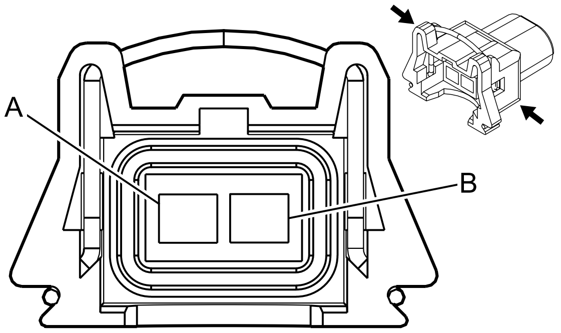
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

Q17H Fuel Injector 8 (LC8 with FHZ)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	RD	RD	—	Ignition Voltage	I	-
2	GY	GY	—	Fuel Injector 8 Control	I	-

Q17H Fuel Injector 8 (LC8 with KO7 and UFM)



Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: 12129140

Service Connector: 12085491

Description: 2-Way F Metri-Pack 280.1 , Pull To Seat (BK)

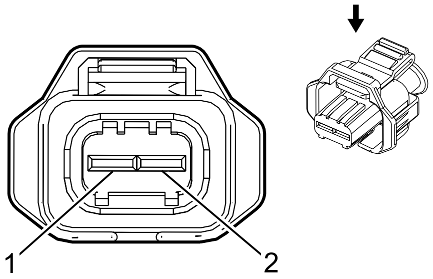
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-4A (PU)	J-38125-559	12077939	18	C	A

Q17H Fuel Injector 8 (LC8 with KO7 and UFM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	RD	—	Ignition Voltage	I	-
B	1	BK	—	Fuel Injector 8 Control	I	-

Q17H Fuel Injector 8 (LGH)



Connector Part Information

Harness: Engine

OEM: 1928404114

Service: 13576410

Description: 2−Way F 2.8 Series Sealed (BK)

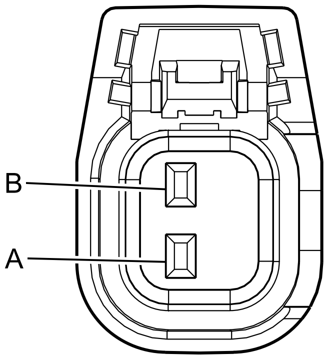
Terminal Part Information

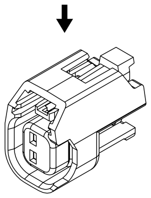
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				1928498054	8	E	1

Q17H Fuel Injector 8 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	GY/WH	4908	Direct Fuel Injector (DFI) High Voltage Supply Cylinder 8	I	-
2	0.8	GY	4808	Direct Fuel Injector (DFI) High Voltage Control Cylinder 8	I	-

Q17H Fuel Injector 8 (LMF, L20 or L96)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

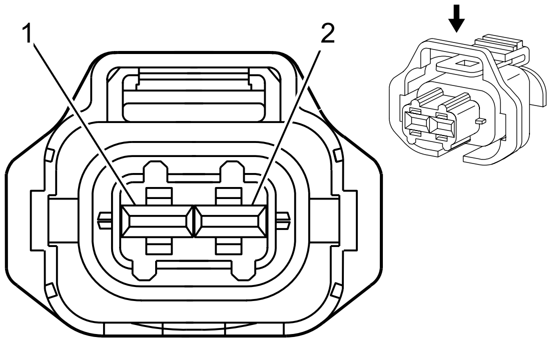
Terminal Part Information

Terminal Type ID	**Terminated Lead**	**Diagnostic Test Probe**	**Terminal Removal Tool**	**Service Terminal**	**Tray**	**Core Crimp**	**Insulation Crimp**
I	Pin A– 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A– 2	1

Q17H Fuel Injector 8 (LMF, L20 or L96)

Pin	**Size**	**Color**	**Circuit**	**Function**	**Terminal Type ID**	**Option**
A	0.8	PK	1239	Ignition Voltage	I	-
B	0.5	D-BU/WH	878	Fuel Injector 8 Control	I	-

Q18A Fuel Pressure Regulator 1 (LGH)



Connector Part Information

Harness Type: Engine Jumper

OEM Connector: 1928403874

Service Connector: 88988963

Description: 2-Way F Kompakt 2.8 Series, Sealed (BK)

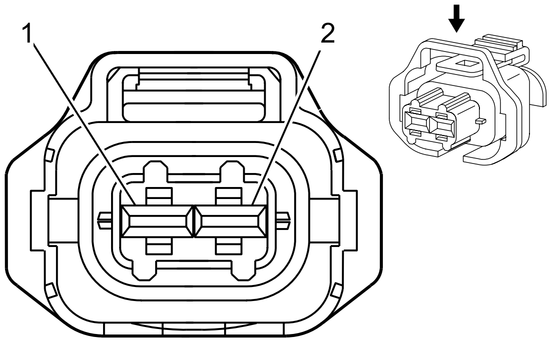
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-35 (VT)	J-38125-561	1928498054	8	E	1

Q18A Fuel Pressure Regulator 1 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	YE	2928	Fuel Pressure Regulator 1 Solenoid Control	I	-
2	0.5	BK	2929	Low Reference	I	-

Q18B Fuel Pressure Regulator 2 (LGH)



Connector Part Information

Harness Type: Engine Jumper

OEM Connector: 1928403874

Service Connector: 88988963

Description: 2-Way F Kompakt 280 Series, Sealed (BK)

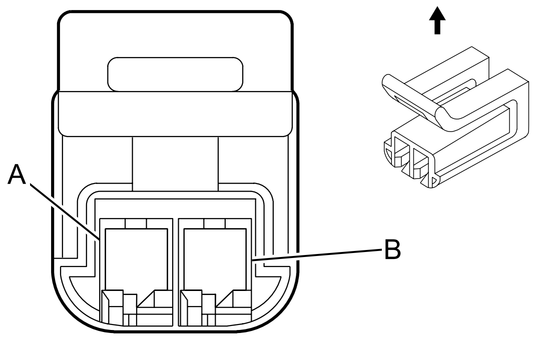
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-35 (VT)	J-38125-561	1928498054	8	E	1

Q18B Fuel Pressure Regulator 2 (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	PU/WH	2530	Fuel Pressure Regulator 2 Solenoid Control	I	-
2	0.8	YE	2834	Low Reference	I	-

Q1A 1-2 Shift Solenoid Valve



Connector Part Information

Harness: Transmission

OEM: 15473843

Service: Service by Harness - See Part Catalog

Description: 2-Way F Metri-Pack 150.2 Series (NA)

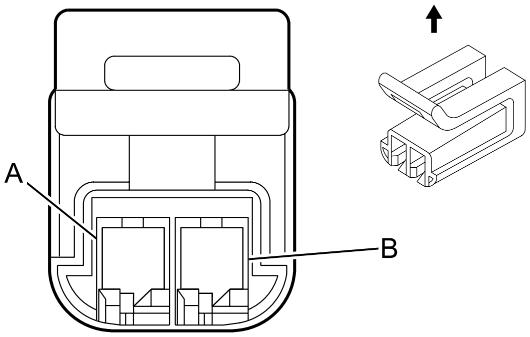
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12124075	5	E	C

Q1A 1-2 Shift Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	RD	839	Ignition Voltage	I	-
B	0.5	L-GN	1222	1-2 Shift Solenoid Valve Control	I	-

Q1B 2-3 Shift Solenoid Valve



Connector Part Information

Harness: Transmission

OEM: 15473843

Service: Service by Harness - See Part Catalog

Description: 2-Way F Metri-Pack 150.2 Series (NA)

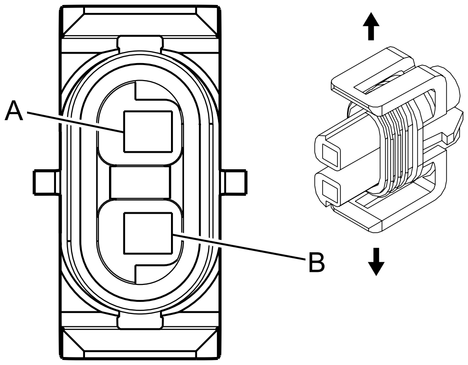
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12124075	5	E	C

Q1B 2-3 Shift Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	RD	839	Ignition Voltage	I	-
B	0.5	YE	1223	2-3 Shift Solenoid Valve Control	I	-

Q2 A/C Compressor Clutch



Connector Part Information

Harness Type: Engine (LU3, L20, LMF or L96)

Harness Type: Engine Chassis (LMM or LGH)

OEM Connector: 12162017

Service Connector: 12101937

Description: 2-Way F Metri-Pack 150 Series, Sealed (GY)

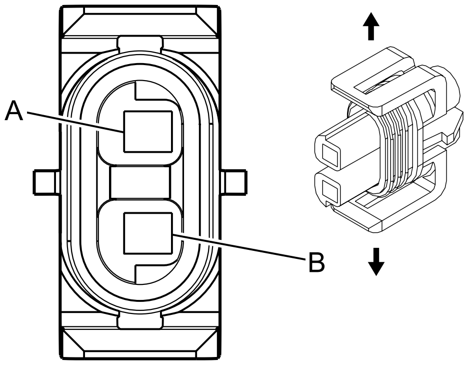
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A (L20 or L96) – 13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

Q2 A/C Compressor Clutch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8 0.5	BK BK	1250 1250	Ground Ground	I	L20, L96, LMF or LU3 LGH or LMM
B	0.5	D-GN	59	A/C Compressor Clutch Control	I	-

Q2 A/C Compressor Clutch (C60 and Diesel)



Connector Part Information

Harness Type: Engine Chassis

OEM Connector: 12162017

Service Connector: 12101937

Description: 2-Way F Metri-Pack 150 Series, Sealed (GY)

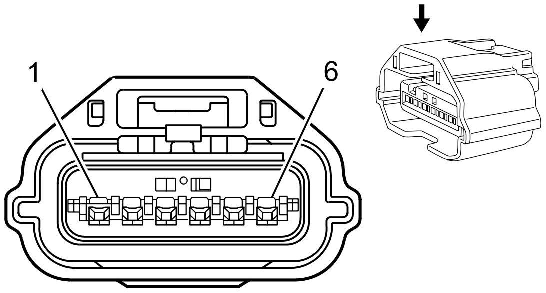
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: A (LGH or LMM), B – 13575419	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

Q2 A/C Compressor Clutch (C60 and Diesel)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BK	1250	Ground	I	LGH or LMM
B	0.5	D-GN	59	A/C Compressor Clutch Control	I	-

Q20 Intake Air Flow Valve (LGH)



Connector Part Information

Harness: Engine

OEM: 7283-8850-30

Service: 13576408

Description: 6-Way F RH Series (BK)

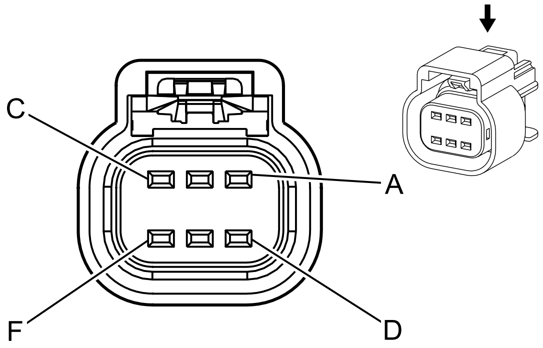
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				Pending	Pending	Pending	Pending

Q20 Intake Air Flow Valve (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.75	BN	582	Throttle Actuator Control Close	I	-
2	0.75	YE	581	Throttle Actuator Control Open	I	-
3	0.5	TN	2752	Low Reference	I	-
4	-	-	-	Not Occupied	-	-
5	0.5	D-GN	485	Throttle Position (TP) Sensor Signal	I	-
6	0.5	GY	2701	5-Volt Reference	I	-

Q38 Throttle Body (LC8, LMF, LU3, L20 or L96)



Connector Part Information

Harness Type: Engine

OEM Connector: 15418497

Service Connector: 13504128

Description: 6-Way F GT 150 Series Sealed (BK)

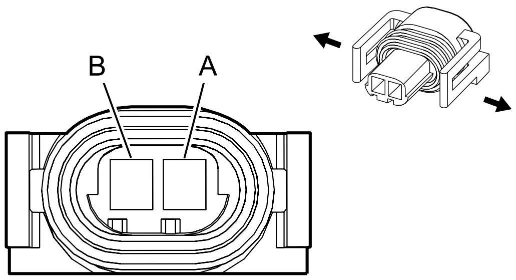
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-2A (GY)	J-38125-553	15326427	5	E	A

Q38 Throttle Body (LC8, LMF, LU3, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BN	582	Throttle Actuator Control Motor Control– 2	I	-
B	0.5	YE	581	Throttle Actuator Control Motor Control– 1	I	-
C	0.35	TN	2752	Low Reference	I	-
D	0.35	D-GN	485	Throttle Position (TP) Sensor 1 Signal	I	-
E	0.35	GY	2701	5-Volt Reference	I	-
F	0.35	PU	486	Throttle Position (TP) Sensor 2 Signal	I	-

Q41 Turbocharger Vane Position Control Solenoid Valve (LGH)



Connector Part Information

Harness Type: Engine

OEM Connector: 12162215

Service Connector: 12085496

Description: 2-Way F MP 150.2 Series, Sealed (BK)

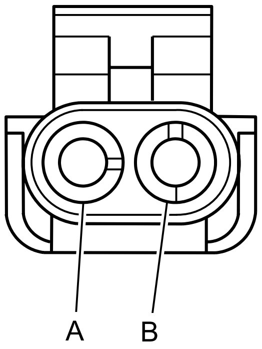
Terminal Part Information

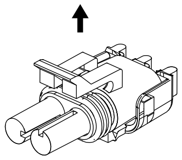
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-14 (GN)	J-38125-559	12124075	5	E	C

Q41 Turbocharger Vane Position Control Solenoid Valve (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	D-BU	5930	Turbocharger Vane Position Control Solenoid Valve Control	I	-
B	0.5	WH	5931	Low Reference	I	-

Q53 Fuel Cut-Off Solenoid Valve (KO7 with UFM)





Connector Part Information

Harness Type: LPG Tank

OEM Connector: 12015792

Service Connector: 12126452

Description: 2-Way F Weather Pack Series (BK)

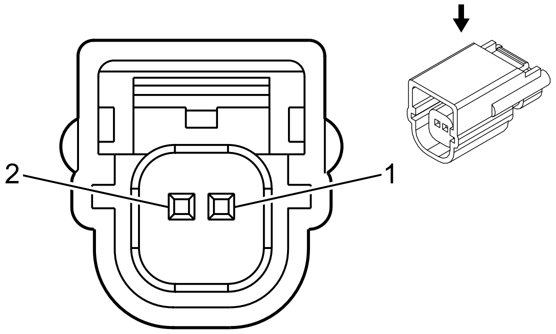
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-8 (OG)	J-38125-10A	12089188	3	E	5

Q53 Fuel Cut-Off Solenoid Valve (KO7 with UFM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	RD	—	Fuel Pump Control	I	-
B	0.8	BK	—	Ground	I	-

Q6 Camshaft Position Actuator Solenoid Valve (LC8 or L96)



Connector Part Information

Harness Type: Camshaft Position Sensor Jumper

OEM Connector: 15472554

Service Connector: 88988610

Description: 2-Way F 64 Sleeve Assembly (BK)

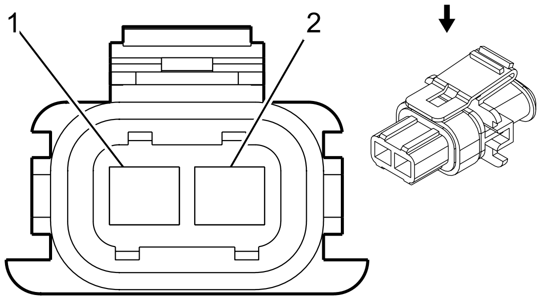
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578815	J-35616-64B (L-BU)	J-38125-553	1393365-2//A	1393365-2//A	Not Available	Not Available

Q6 Camshaft Position Actuator Solenoid Valve (LC8 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	TN	2199	Low Reference	I	-
2	0.35	PU	5284	Camshaft Actuator Solenoid Control	I	-

Q61 Reductant Injector (LGH)



Connector Part Information

Harness: Catalytic Converter Jumper (Cutaway)

Harness: Engine Chassis (Cargo or Passenger)

OEM: 10740370

Service: 88988586

Description: 2-Way F 2.8 Series, Sealed (BK)

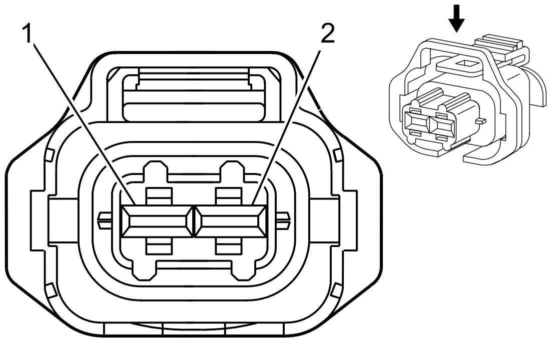
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				1928498058	8	E	1

Q61 Reductant Injector (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.8	BN	3099	DEF Dosing Valve Low Control	I	-
2	0.8	BN/WH	3100	DEF Dosing Valve High Control	I	-

Q62 Reductant Purge Solenoid Valve (LGH)



Connector Part Information

Harness: Reductant Jumper

OEM: 1928403874

Service: 88988963

Description: 2-Way F Kompakt 280 Series, Sealed (BK)

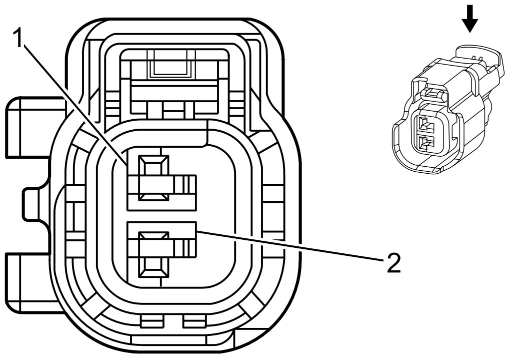
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				1928498058	8	E	1

Q62 Reductant Purge Solenoid Valve (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	D-GN	517	DEF Reverting Valve High Control	I	-
2	0.5	BK	527	DEF Reverting Valve Low Control	I	-

Q67 Exhaust After treatment Fuel Injector (LGH)



Connector Part Information

Harness Type: Engine

OEM Connector: 34062-0025

Service Connector: 13580230

Description: 2-Way F 1.5 Series, Sealed (BK)

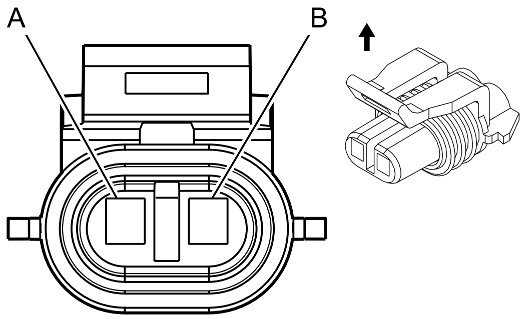
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness– See Part Catalog	J-35616-14 (GN)	J-38125-217	34083-1002	28	E	D

Q67 Exhaust After treatment Fuel Injector (LGH)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	PU	2927	Hydrocarbon Injector Low Control	I	-
2	0.5	D-BU	2926	Hydrocarbon Injector High Control	I	-

Q68A CNG Cut-Off Solenoid Valve 1



Connector Part Information

Harness Type: CNG Fuel Tank

OEM Connector: 12052641

Service Connector: 12102747

Description: 2-Way F Metri-Pack 150 Series (BK)

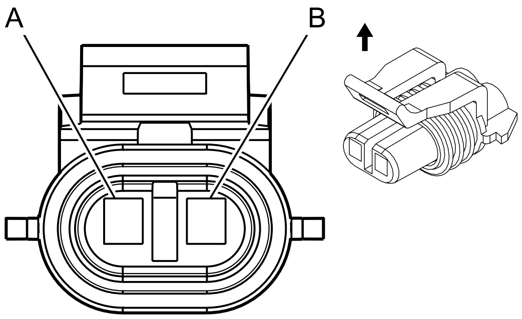
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

Q68A CNG Cut-Off Solenoid Valve 1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	GY	—	CNG Solenoid Valve Control	I	-
B	0.75	BK	—	Low Reference	I	-

Q68B CNG Cut-Off Solenoid Valve 2



Connector Part Information

Harness Type: CNG Fuel Tank

OEM Connector: 12052641

Service Connector: 12102747

Description: 2-Way F Metri-Pack 150 Series (BK)

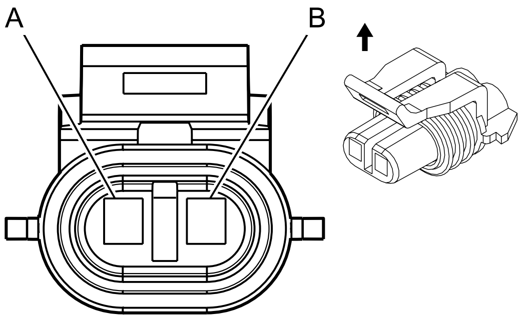
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

Q68B CNG Cut-Off Solenoid Valve 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	GY	—	CNG Solenoid Valve Control	I	-
B	0.75	BK	—	Low Reference	I	-

Q68C CNG Cut-Off Solenoid Valve 3



Connector Part Information

Harness Type: CNG Fuel Tank

OEM Connector: 12052641

Service Connector: 12102747

Description: 2-Way F Metri-Pack 150 Series (BK)

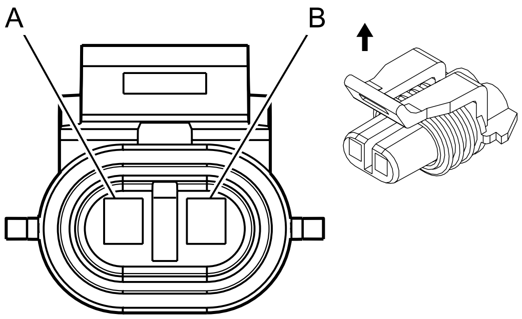
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

Q68C CNG Cut-Off Solenoid Valve 3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	GY	—	CNG Solenoid Valve Control	I	-
B	0.75	BK	—	Low Reference	I	-

Q68D CNG Cut-Off Solenoid Valve 4



Connector Part Information

Harness Type: CNG Fuel Tank

OEM Connector: 12052641

Service Connector: 12102747

Description: 2-Way F Metri-Pack 150 Series (BK)

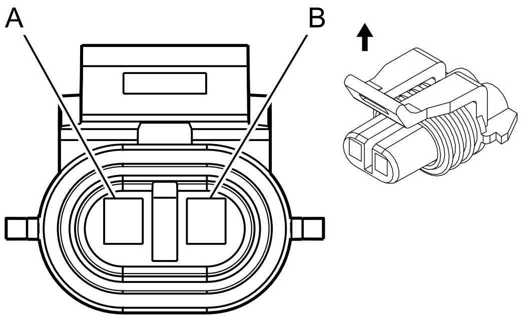
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

Q68D CNG Cut-Off Solenoid Valve 4

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	GY	—	CNG Solenoid Valve Control	I	-
B	0.75	BK	—	Low Reference	I	-

Q68E CNG Cut-Off Solenoid Valve 5



Connector Part Information

Harness Type: CNG Fuel Tank

OEM Connector: 12052641

Service Connector: 12102747

Description: 2-Way F Metri-Pack 150 Series (BK)

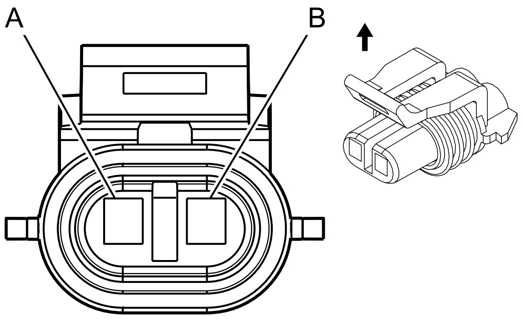
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

Q68E CNG Cut-Off Solenoid Valve 5

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	GY	—	CNG Solenoid Valve Control	I	-
B	0.75	BK	—	Low Reference	I	-

Q69 CNG High Pressure Regulator Solenoid Valve



Connector Part Information

Harness Type: CNG Fuel Tank

OEM Connector: 12052641

Service Connector: 12102747

Description: 2-Way F Metri-Pack 150 Series (BK)

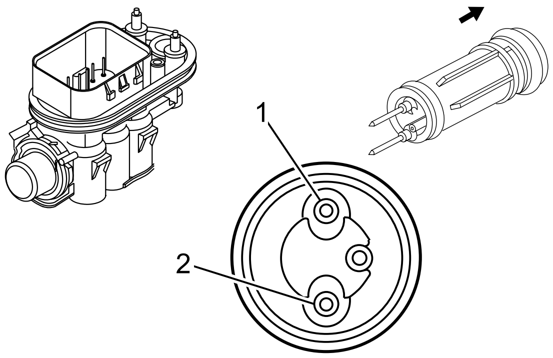
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1

Q69 CNG High Pressure Regulator Solenoid Valve

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.75	GY	—	CNG Solenoid Valve Control	I	-
B	0.75	BK	—	Low Reference	I	-

Q7 Fuel Injector Fuel Meter Body X1-X6 (LU3)



Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: 12597538

Service Connector: 12603371

Description: 2-Way F Sealed (BK)

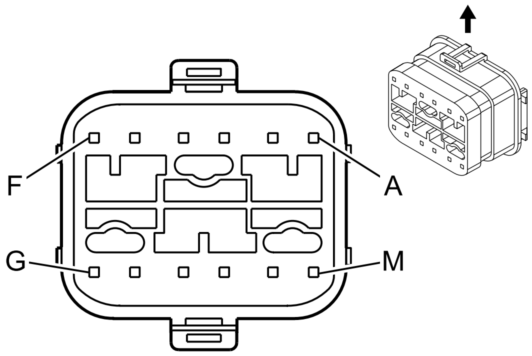
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness - See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q7 Fuel Injector Fuel Meter Body X1-X6 (LU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
X1-1	0.5	BK	1744	Fuel Injector 1 Control	I	-
X1-2	0.5	BK	1839	Ignition 1 Voltage	I	-
X2-1	0.5	BK	1745	Fuel Injector 2 Control	I	-
X2-2	0.5	BK	1839	Ignition 1 Voltage	I	-
X3-1	0.5	BK	1746	Fuel Injector 3 Control	I	-
X3-2	0.5	BK	1839	Ignition 1 Voltage	I	-
X4-1	0.5	BK	844	Fuel Injector 4 Control	I	-
X4-2	0.5	BK	1839	Ignition 1 Voltage	I	-
X5-1	0.5	BK	845	Fuel Injector 5 Control	I	-
X5-2	0.5	BK	1839	Ignition 1 Voltage	I	-
X6-1	0.5	BK	846	Fuel Injector 6 Control	I	-
X6-2	0.5	BK	1839	Ignition 1 Voltage	I	-

Q7 Fuel Injector Fuel Meter Body X7 (LU3)



Connector Part Information

Harness Type: Engine

OEM Connector: 12177083

Service Connector: 12167140

Description: 12-Way F Micro-Pack 100 Series (BK)

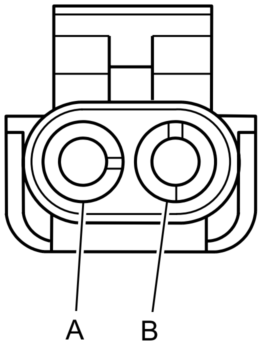
Terminal Part Information

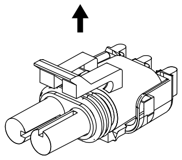
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness - See Part Catalog	J-35616-6 (BN)	J-38125-13A	12066132	2	E	E

Q7 Fuel Injector Fuel Meter Body X7 (LU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	TN/WH	845	Fuel Injector 5 Control	I	-
B	0.5	PK	1839	Ignition Voltage	I	-
C	0.5	PK/BK	1746	Fuel Injector 3 Control	I	-
D	0.5	PK	1839	Ignition Voltage	I	-
E	0.5	PK	1839	Ignition Voltage	I	-
F	0.5	TN	1744	Fuel Injector 1 Control	I	-
G	0.5	L-GN/BK	1745	Fuel Injector 2 Control	I	-
H	0.5	PK	1839	Ignition Voltage	I	-
J	0.5	PK	1839	Ignition Voltage	I	-
K	0.5	L-BU/BK	844	Fuel Injector 4 Control	I	-
L	0.5	PK	1839	Ignition Voltage	I	-
M	0.5	YE/BK	846	Fuel Injector 6 Control	I	-

Q72 LPG Bypass Solenoid Valve (KO7 with UFM)





Connector Part Information

Harness Type: LPG Power

OEM Connector: 12015792

Service Connector: 12126452

Description: 2-Way F Weather Pack Series (BK)

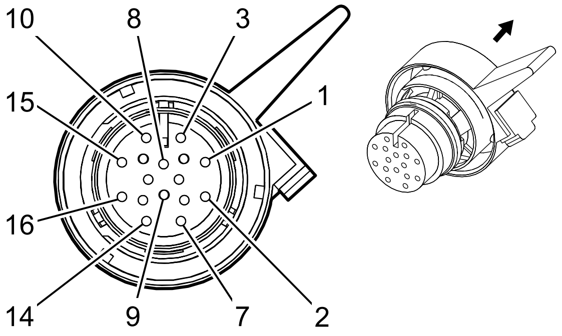
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-8 (OG)	J-38125-10A	12089188	3	E	5

Q72 LPG Bypass Solenoid Valve (KO7 with UFM)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	RD	—	LPG Bypass Solenoid Control	I	-
B	0.8	BK	—	Ground	I	-

Q8 Control Solenoid Valve Assembly X1 (MYD with Diesel)



Connector Part Information

Harness Type: Transmission Jumper

OEM Connector: 15491328

Service Connector: 15131300

Description: 16-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

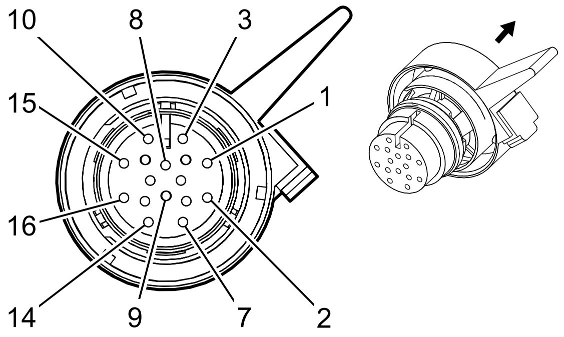
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578934	J-35616-66 (YE)	J-38125-28	10725296	17	E	1

Q8 Control Solenoid Valve Assembly X1 (MYD with Diesel)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	RD/WH	1840	Battery Positive Voltage	I	-
2	0.8	BK/WH	1551	Ground	I	-
3	0.5	OG/BK	1786	Park/Neutral Signal	I	-
4–5	-	-	-	Not Occupied	-	-
6	0.5	L-BU/WH	6311	Brake Switch Signal	I	-
7	-	-	-	Not Occupied	-	-
8	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	I	-
9	0.5	D-BU	5985	Accessory Wakeup Serial Data	I	-
10	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
11	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	I	-
12	0.5	PK	2139	Ignition 1 Voltage	I	-
13	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	I	-
14	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
15	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-

15	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
16	0.5	OG/BK	6399	Replicated TOS Signal	I	-

Q8 Control Solenoid Valve Assembly X1 (MYD)



Connector Part Information

Harness Type: Engine (L20 or L96)

Harness Type: Transmission Jumper (LGH)

OEM Connector: 15491328

Service Connector: 15131300

Description: 16-Way F 1.5 Series, Sealed (BK)

Terminal Part Information

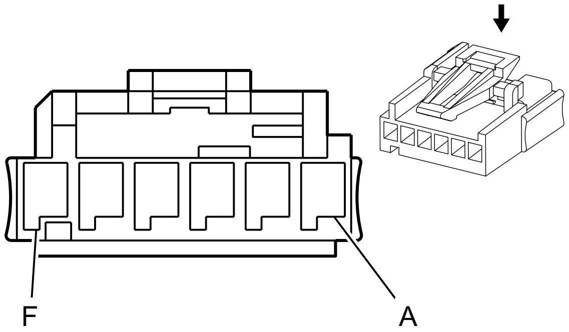
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578934	J-35616-66 (YE)	J-38125-28	2 21 24 47220 0	12	E	1

Q8 Control Solenoid Valve Assembly X1 (MYD)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	RD/WH	1840	Battery Positive Voltage	I	LGH
2	0.8	BK/WH	1551	Ground	I	LGH
3	0.5	OG/BK	1786	Park/Neutral Signal	I	-
4	0.35	RD/WH	1840	Battery Positive Voltage	I	L20 or L96
5	0.8	BK/WH	1551	Ground	I	L20 or L96
6	0.5	L-BU/WH	6311	Brake Switch Signal	I	-
7	-	-	-	Not Occupied	-	-
8	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	I	-
9	0.5	D-BU	5985	Accessory Wakeup Serial Data	I	-
10	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
11	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	I	-
12	0.5	PK	2139	Ignition 1 Voltage	I	-
13	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	I	-

14	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
15	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
16	0.5	OG/BK	6399	Replicated TOS Signal	I	-

Q8 Control Solenoid Valve Assembly X2 (MYD)



Connector Part Information

Harness Type: Transmission

OEM Connector: 15336500

Service Connector: 89046635

Description: 6-Way F Metri-Pack 150.2 Series (GN)

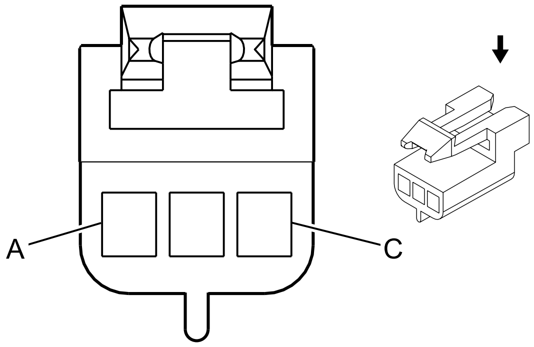
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 89046635	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q8 Control Solenoid Valve Assembly X2 (MYD)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	GY	GY	—	Ground	I	-
B	BK	BK	—	Transmission Range Switch Signal P	I	-
C	YE	YE	—	Transmission Range Switch Signal C	I	-
D	RD	RD	—	Transmission Range Switch Signal B	I	-
E	GN	GN	—	Transmission Range Switch Signal A	I	-
F	WH	WH	—	Park/Neutral Switch Signal	I	-

Q8 Control Solenoid Valve Assembly X3 (MYD)



Connector Part Information

Harness Type: Transmission

OEM Connector: 12064758

Service Connector: 12117320

Description: 3-Way F Metri-Pack 150 Series (BK)

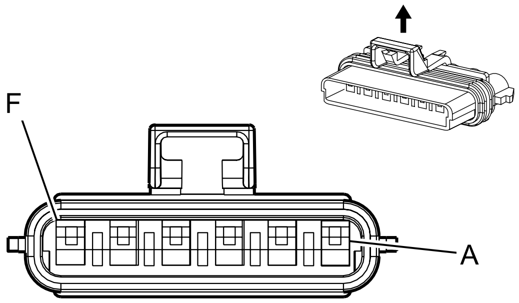
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 12117320	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Q8 Control Solenoid Valve Assembly X3 (MYD)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	GN	GN	—	Input Speed Sensor (ISS) Signal	I	-
B	RD	RD	—	8-Volt Reference	I	-
C	BK	BK	—	Output Speed Sensor (OSS) Signal	I	-

R3 Blower Motor Resistor



Connector Part Information

Harness Type: Engine (LU3, L20, LMF or L96)

Harness Type: Engine Chassis (LMM or LGH)

OEM Connector: 12160746

Service Connector: 15306007

Description: 6-Way F Metri-Pack 280 Series, Flexlock, Sealed (L-GY)

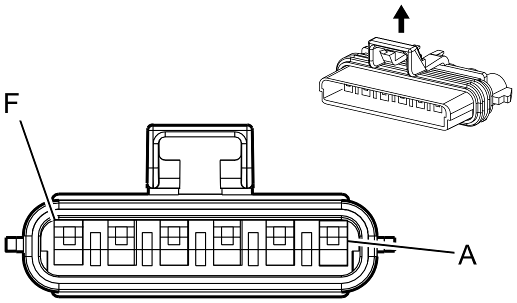
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-553	Pins: A, C–12110853	4	Pins: A, C– B	5

R3 Blower Motor Resistor

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	5	RD/BK	542	Battery Positive Voltage	I	-
B	0.8	OG	52	Blower Motor High Control	I	-
C	5	BK	1250	Ground	I	-
D	0.8	TN	63	Blower Motor Medium Control	I	-
E	0.8	YE	60	Blower Motor Low Control	I	-
F	0.8	L-BU	72	Medium 2 Blower Motor Control	I	-

R3 Blower Motor Resistor (Diesel)



Connector Part Information

Harness Type: Engine Chassis

OEM Connector: 12160746

Service Connector: 15306007

Description: 6-Way F Metri-Pack 280 Series, Flexlock, Sealed (L-GY)

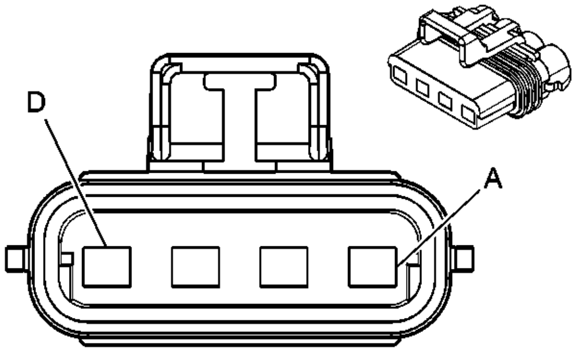
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 15306007	J-35616-4A (PU)	J-38125-553	Pins: A, C– 12110853	4	Pins: A, C– B	5

R3 Blower Motor Resistor (Diesel)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	5	RD/BK	542	Battery Positive Voltage	I	-
B	0.8	OG	52	Blower Motor High Control	I	-
C	5	BK	1250	Ground	I	-
D	0.8	TN	63	Blower Motor Medium Control	I	-
E	0.8	YE	60	Blower Motor Low Control	I	-
F	0.8	L-BU	72	Medium 2 Blower Motor Control	I	-

R3B Blower Motor Resistor - Auxiliary



Connector Part Information

Harness Type: Rear HVAC

OEM Connector: 12129566

Service Connector: 15306069

Description: 4-Way F Metri-Pack 280 Series, Sealed (GY)

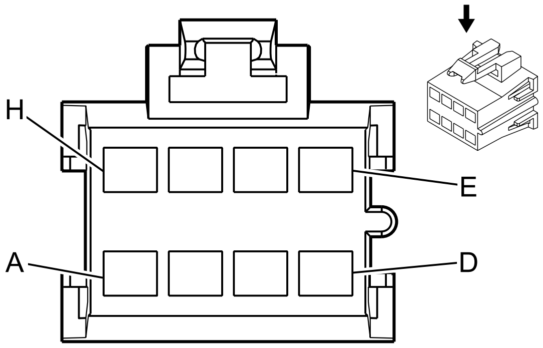
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12129493	2	4	5

R3B Blower Motor Resistor - Auxiliary

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	YE	1176	Auxiliary Blower Motor Low Control	I	-
B	-	-	-	Not Occupied	-	-
C	3	L-BU	1072	Auxiliary Blower Motor Medium Control	I	-
D	5	YE	1172	Auxiliary Blower Motor Supply Voltage	I	-

S13A Door Lock Switch - Rear Cargo (Passenger or Cargo with AU3)



Connector Part Information

Harness Type: Right Rear Cargo Door

OEM Connector: 12064998

Service Connector: 15306189

Description: 8-Way F Metri-Pack 280 Series (BK)

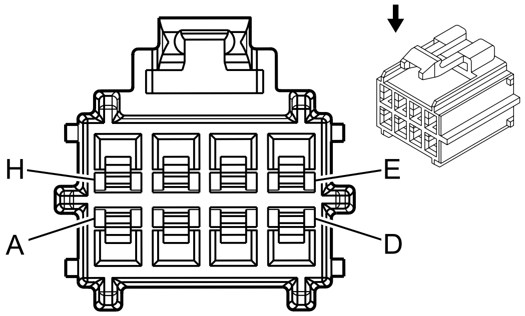
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12034046	2	E	A

S13A Door Lock Switch - Rear Cargo (Passenger or Cargo with AU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	L-BU	244	Passenger Door Lock Switch Lock Control	I	-
B–C	-	-	-	Not Occupied	-	-
D	0.35	D-BU	245	Passenger Door Lock Switch Unlock Control	I	-
E	0.35	BK/WH	1051	Ground	I	-
F–H	-	-	-	Not Occupied	-	-

S13D Door Lock Switch - Driver (AU3)



Connector Part Information

Harness Type: Driver Door

OEM Connector: 15418533

Service Connector: 15306048

Description: 8-Way F GT 280 (L-GN)

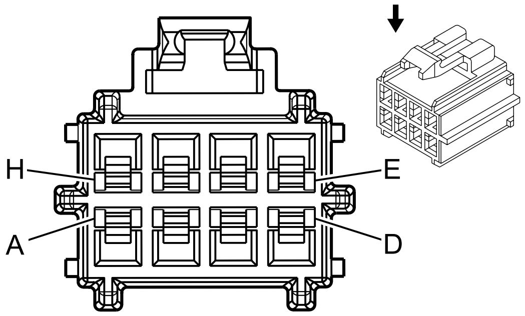
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575753	J-35616-4A (PU)	J-38125-553	15304711	8	E	A

S13D Door Lock Switch - Driver (AU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK	450	Ground	I	-
B	0.35	BK	450	Ground	I	-
C	0.35	BN/WH	230	Instrument Panel Lamps Dimming Control	I	-
D–E	-	-	-	Not Occupied	-	-
F	0.35	OG/BK	781	Driver Door Lock Switch Unlock Signal	I	-
G	0.35	PK/BK	780	Driver Door Lock Switch Lock Signal	I	-
H	-	-	-	Not Occupied	-	-

S13P Door Lock Switch - Passenger (AU3)



Connector Part Information

Harness Type: Passenger Door

OEM Connector: 15418533

Service Connector: 15306048

Description: 8-Way F GT 280 (L-GN)

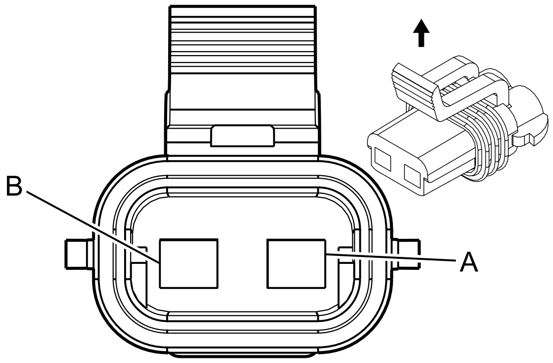
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575753	J-35616-4A (PU)	J-38125-553	15304711	8	E	A

S13P Door Lock Switch - Passenger (AU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK	1850	Ground	I	-
B	0.35	BK	1850	Ground	I	-
C	0.35	BN/WH	230	Instrument Panel Lamps Dimming Control	I	-
D–E	-	-	-	Not Occupied	-	-
F	0.35	D-BU	245	Passenger Door Lock Switch Unlock Control	I	-
G	0.35	L-BU	244	Passenger Door Lock Switch Lock Control	I	-
H	-	-	-	Not Occupied	-	-

S13P Door Lock Switch - Passenger X2



Connector Part Information

Harness Type: Passenger Door

OEM Connector: 15300027

Service Connector: 12101855

Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

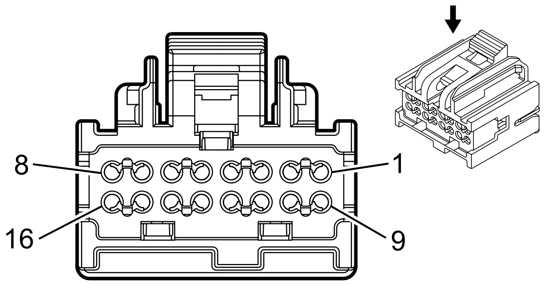
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12077411	2	2	5

S13P Door Lock Switch - Passenger X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	294	Door Lock Actuator Unlock Control	I	-
B	0.8	GY	295	Door Lock Actuator Lock Control	I	-

S30 Headlamp Switch



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13568238

Service Connector: 13504130

Description: 16-Way F Micro 64 Series Sealed (BK)

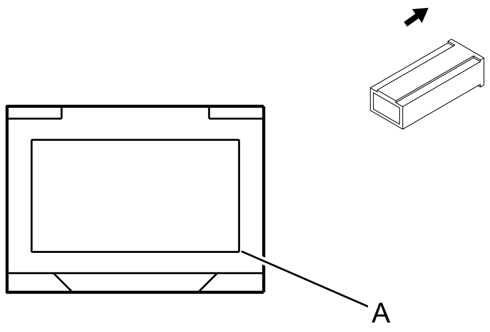
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: 1-3, 7, 9, 12-13, 15 – 13575535	J-35616-64B (L-BU)	J-38125-21	15359541	4	M	M

S30 Headlamp Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	WH	103	Headlamp Switch Headlamps On Signal	I	-
2	0.35	L-BU	13	Headlamp Switch Park Lamps Signal	I	-
3	0.35	D-GN	306	Headlamp Switch Headlamps Off Signal	I	-
4–6	-	-	-	Not Occupied	-	-
7	0.35	BN/WH	230	Instrument Panel Lamps Dimming Control	I	-
8	0.5	BK/WH	351	Ground	I	-
9	0.35	PU	328	Interior Lamp Defeat Switch Signal	I	-
10–11	-	-	-	Not Occupied	-	-
12	0.35	D-BU/WH	149	Courtesy Lamp Control	I	-
13	0.35	D-GN	44	Instrument Panel Lamps Dimmer Switch Signal	I	-
14	-	-	-	Not Occupied	-	-
15	0.35	OG/WH	812	IP Dimming Voltage Reference	I	-
16	-	-	-	Not Occupied	-	-

S33 Horn Switch X1



Connector Part Information

Harness Type: Steering Wheel

OEM Connector: 12052018

Service Connector: 13580102

Description: 1-Way F 6.3 Series (BK)

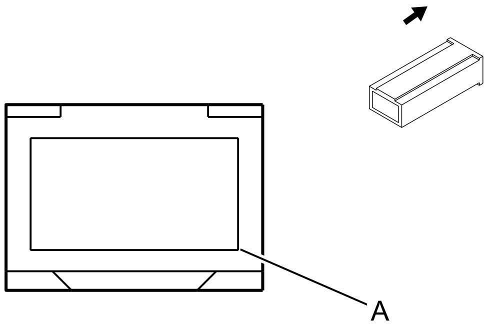
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S33 Horn Switch X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	OG	28	Horn Relay Control	I	-

S33 Horn Switch X2



Connector Part Information

Harness Type: Steering Wheel

OEM Connector: 12052018

Service Connector: 13580102

Description: 1-Way F 6.3 Series (BK)

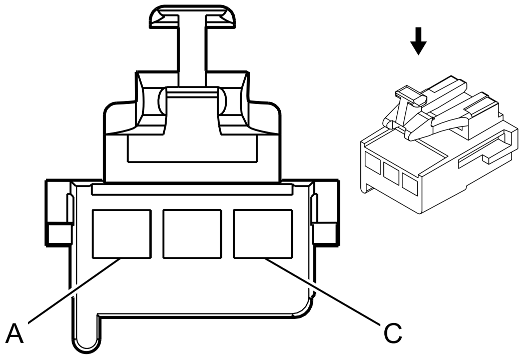
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S33 Horn Switch X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK	350	Ground	I	-
	0.35	BK	350	Ground		
	0.35	BK	350	Ground		

S34 HVAC Controls Switch Assembly X1



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12129489

Service Connector: 12126486

Description: 3-Way F Metri-Pack 280 Series, Flexlock (BK)

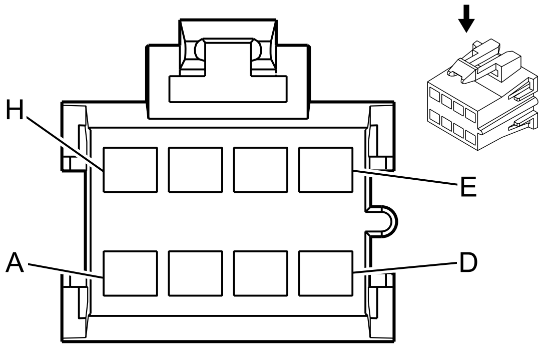
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575721	J-35616-4A (PU)	J-38125-553	12110844	4	Pin A– C	A

S34 HVAC Controls Switch Assembly X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	WH	119	Blower Motor Switch Control	I	-
B	0.5	BK	550	Ground	I	-
C	0.35	BN/WH	230	Instrument Panel Lamps Dimming Control	I	-

S34 HVAC Controls Switch Assembly X2



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12064998

Service Connector: 15306189

Description: 8-Way F Metri-Pack 280 Series (BK)

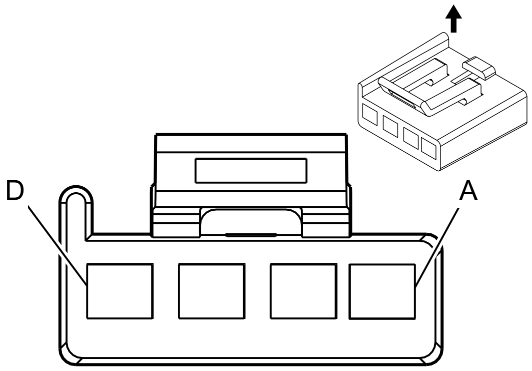
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12066214	2	Pins: A-D, F–Not Available	Pins: A-D, F–Not Available
II	Pending	J-35616-4A (PU)	J-38125-11A	12034046	2	E	A

S34 HVAC Controls Switch Assembly X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	YE	60	Blower Motor Low Control	I	-
B	0.8	TN	63	Blower Motor Medium Control	I	-
C	0.8	L-BU	72	Medium 2 Blower Motor Control	I	-
D	0.8	OG	52	Blower Motor High Control	I	-
E	1	BN	141	Ignition Voltage	I	-
F	0.8	L-BU	733	Air Temperature Door Control	I	-
G	1	WH	119	Blower Motor Switch Control	I	-
H	0.5	D-GN/WH	762	A/C Request Signal	-	C60

S34 HVAC Controls Switch Assembly X3



Connector Part Information

- Harness Type: Instrument Panel
- OEM Connector: 12052856
- Service Connector: 12125636
- Description: 4-Way F Metri-Pack 280 Series (BK)

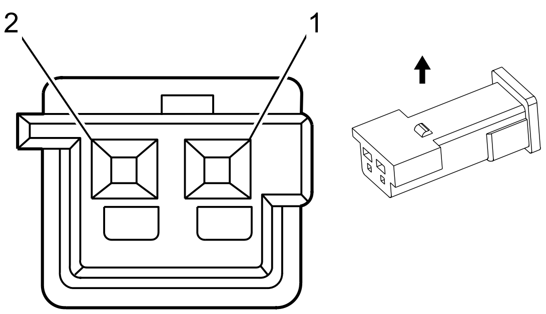
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	Pin A– 12066214	2	Pin A– Not Available	Pin A– Not Available

S34 HVAC Controls Switch Assembly X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	RD/WH	4440	Battery Positive Voltage	I	C49 with DE5 or DE7
B	0.35	BN	341	Ignition Voltage	I	-
C	0.5	BK	550	Ground	I	-
D	0.35	WH	193	Rear Defog Relay Control	I	C49 with DE5 or DE7

S34 HVAC Controls Switch Assembly X4 (C60)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15318080

Service Connector: 21019410

Description: 2-Way F Metri-Pack 280 Series (BK)

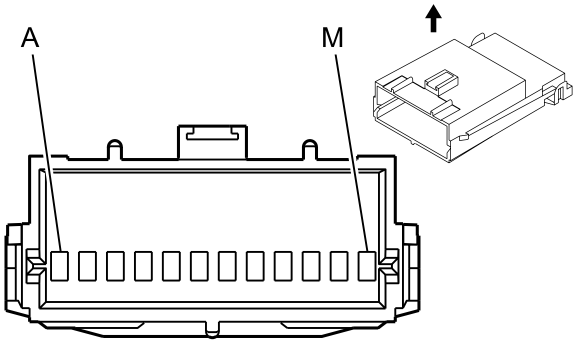
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12034046	2	E	A

S34 HVAC Controls Switch Assembly X4 (C60)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.5	L-GN	66	A/C Request Signal	I	-
2	0.5	D-GN/WH	762	A/C Request Signal	I	-

S34B HVAC Controls Switch Assembly - Auxiliary (C69 with Rear Auxiliary Controls)



Connector Part Information

Harness Type: Front Headliner

OEM Connector: 12040747

Service Connector: 12101938

Description: 12-Way P/C Edgeboard - Standard (BK)

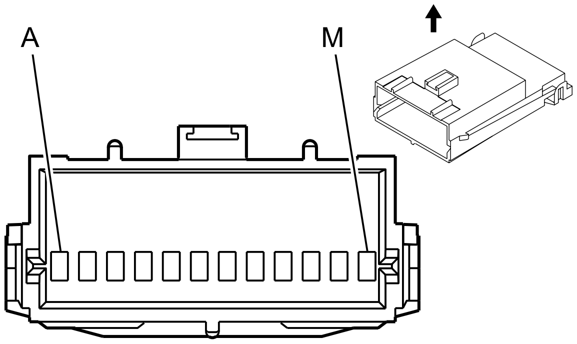
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-12A	12040511	3	E	A

S34B HVAC Controls Switch Assembly - Auxiliary (C69 with Rear Auxiliary Controls)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	PU	5260	Front Auxiliary Air Temperature Door Control	I	-
B	0.35	OG	2775	Auxiliary Air Temperature Door Control	I	-
C	0.5	BN	5263	Rear Auxiliary Air Temperature Door Control	I	-
D	0.5	PU/WH	5264	Rear Auxiliary Mode Door Control	I	-
E	0.35	TN	5261	Front Auxiliary Mode Door Control	I	-
F	0.35	GY	2599	Auxiliary Mode Door Control	I	-
G	-	-	-	Not Occupied	-	-
H	0.35	BK	1850	Ground	I	-
J	0.35	BN	341	Ignition Voltage	I	-
K	-	-	-	Not Occupied	-	-
L	0.5	PK/BK	5265	Rear Auxiliary Blower Motor Switch Control	I	-
M	0.35	YE	5262	Front Auxiliary Blower Motor Switch Control	I	-

S34F HVAC Controls Switch Assembly - Auxiliary Front (C69 with Rear Auxiliary Controls)



Connector Part Information

Harness Type: Front Headliner

OEM Connector: 12040747

Service Connector: 12101938

Description: 12-Way P/C Edgeboard - Standard (BK)

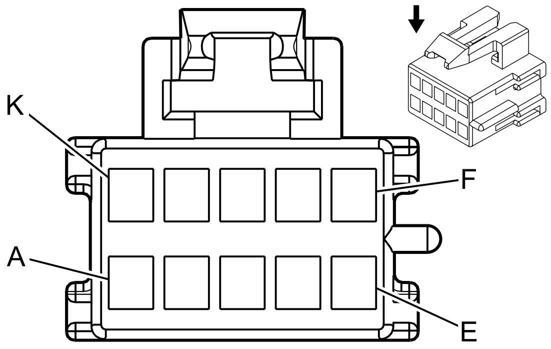
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-4A (PU)	J-38125-12A	12040511	3	E	A

S34F HVAC Controls Switch Assembly - Auxiliary Front (C69 with Rear Auxiliary Controls)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	PU	5260	Dual Logic Module Front Temperature Signal	I	-
B	0.35	OG	2775	Rear Air Temperature Motor Control	I	-
C	0.35	BN	5263	Dual Logic Module Rear Temperature Signal	I	-
D	0.35	PU/WH	5264	Dual Logic Module Rear Mode Signal	I	-
E	0.35	TN	5261	Dual Logic Module Front Mode Signal	I	-
F	0.35	GY	2599	Rear Mode Motor Signal	I	-
G	-	-	-	Not Occupied	-	-
H	0.35	BK	1850	Ground	I	-
J	0.35	BN	341	Run Ignition 3 Voltage	I	-
K	-	-	-	Not Occupied	-	-
L	0.35	PK/BK	5265	Dual Logic Module Rear Control Signal	I	-
M	0.35	YE	5262	Dual Logic Module Rear Control Enable Signal	I	-

S34F HVAC Controls Switch Assembly - Auxiliary Front (C69 without Rear Auxiliary Controls)



Connector Part Information

Harness Type: Front Headliner

OEM Connector: 12064871

Service Connector: 12101832

Description: 10-Way F Metri-Pack 150 Series (BU)

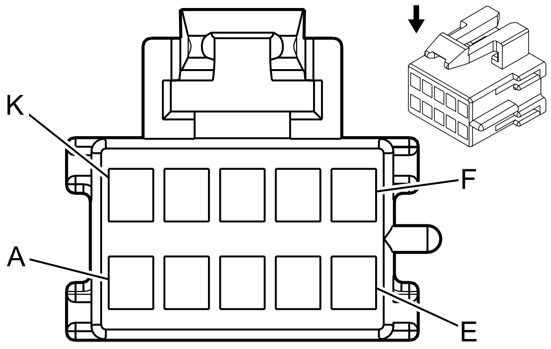
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	5	E	C

S34F HVAC Controls Switch Assembly - Auxiliary Front (C69 without Rear Auxiliary Controls)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BN/WH	230	Instrument Panel Lamps Dimming Control	I	-
B	0.35	BK	1850	Ground	I	-
C	0.5	D-BU	1926	Auxiliary Blower Motor Low Control	I	-
D	0.5	WH	1924	Auxiliary Blower Motor High Control	I	-
E	0.5	OG	1925	Auxiliary Blower Motor Medium Control	I	-
F	0.35	BK	1850	Ground	I	-
G	0.35	BN	341	Ignition Voltage	I	-
H	0.35	OG	2775	Auxiliary Air Temperature Door Control	I	-
J	0.35	GY	2599	Auxiliary Mode Door Control	I	-
K	-	-	-	Not Occupied	-	-

S34R HVAC Controls Switch Assembly - Auxiliary Rear (C69 with Rear Auxiliary Controls)



Connector Part Information

Harness Type: Headliner

OEM Connector: 12064871

Service Connector: 12101832

Description: 10-Way F Metri-Pack 150 Series (BU)

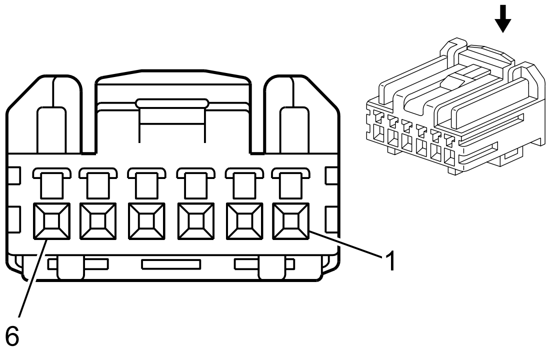
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	5	E	C

S34R HVAC Controls Switch Assembly - Auxiliary Rear (C69 with Rear Auxiliary Controls)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BN/WH	230	Instrument Panel Lamps Dimming Control	I	-
B	0.5	BK	1050	Ground	I	-
C	0.5	D-BU	1926	Auxiliary Blower Motor Low Control	I	-
D	0.5	WH	1924	Auxiliary Blower Motor High Control	I	-
E	0.5	OG	1925	Auxiliary Blower Motor Medium Control	I	-
F	0.35	PK/BK	5265	Rear Auxiliary Blower Motor Switch Control	I	-
G	0.35	BN	341	Ignition Voltage	I	-
H	0.35	BN	5263	Rear Auxiliary Air Temperature Door Control	I	-
J	0.35	PU/WH	5264	Rear Auxiliary Mode Door Control	I	-
K	-	-	-	Not Occupied	-	-

S39 Ignition Switch



Connector Part Information

Harness Type: Steering Column

OEM Connector: 15484551

Service Connector: 19153174

Description: 6-Way F HCM Series (BK)

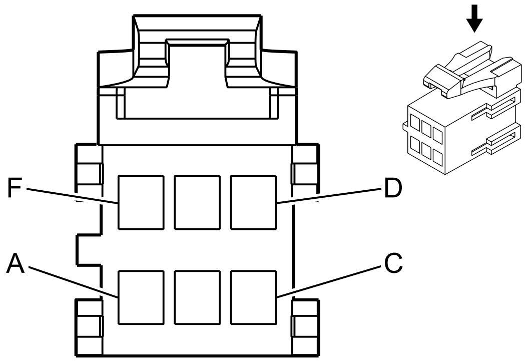
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-64B (L-BU)	J-38125-12A	SHCM-A03T-P025	20	J	J

S39 Ignition Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	-	-	-	Not Occupied	-	-
2	0.35	PK	3	Ignition Voltage	I	-
3	0.35	BN	4	Ignition Voltage	I	-
4	0.35	RD/WH	540	Battery Positive Voltage	I	-
5	0.35	PK	1020	Ignition Voltage	I	-
6	0.35	WH	530	Ignition Voltage	I	-

S40 Passenger Air Bag Disable Switch (C99)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15305286

Service Connector: 15306014

Description: 6-Way F Metri-Pack 150 Series (YE)

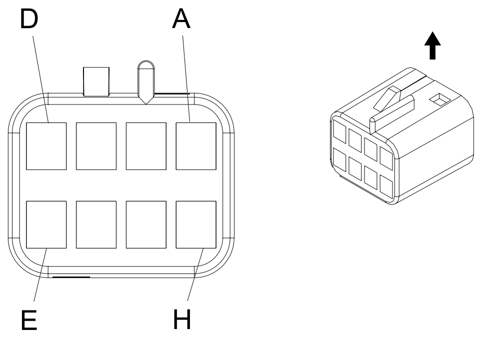
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575725	J-35616-14 (GN)	J-38125-12A	12129484	19	E	C

S40 Passenger Air Bag Disable Switch (C99)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	TN/BK	371	Instrument Panel Module Disable Switch– Signal	I	-
B	0.35	PK	1139	Ignition Voltage	I	-
C	0.5	BN	2309	Front Park Lamps Control	I	-
D	0.35	YE	6817	LED Backlight Dimming Control	I	-
E	0.5	PK	353	Instrument Panel Module Suppression Indicator Control	I	-
F	0.5	BK/WH	1751	Ground	I	-

S51 Telematics Button Assembly (UE1)



Connector Part Information

Harness: Instrument Panel

OEM: 12047886

Service: 12101822

Description: 8-Way F Metri-Pack 150 Series (BK)

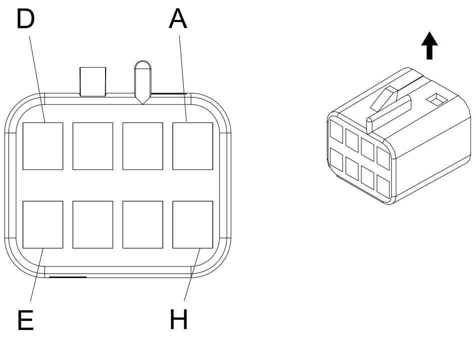
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15326030	2	E	A

S51 Telematics Button Assembly (UE1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	L-GN/BK	2515	Keypad Supply Voltage	I	-
B	0.8	D-GN/WH	2514	Keypad Signal	I	-
C–D	-	-	-	Not Occupied	-	-
E	1	BK	351	Ground	I	-
F	0.8	YE/BK	2516	Keypad Green LED Signal	I	-
G	0.8	BN/WH	2517	Keypad Red LED Signal	I	-
H	-	-	-	Not Occupied	-	-

S52 Outside Rearview Mirror Switch (DE5 or DE7)



Connector Part Information

Harness Type: Driver Door

OEM Connector: 12047886

Service Connector: 12101822

Description: 8-Way F Metri-Pack 150 Series (BK)

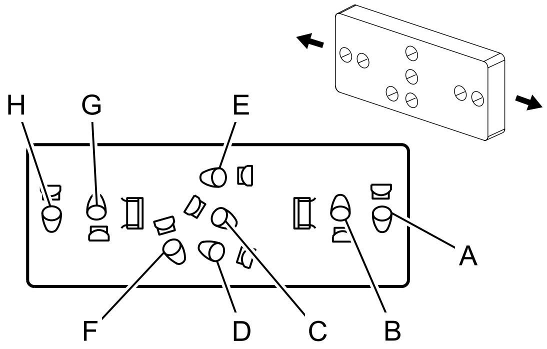
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	5	E	C

S52 Outside Rearview Mirror Switch (DE5 or DE7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	OG/WH	881	Passenger Mirror Motor Right Control	I	-
B	0.35	PU/WH	889	Passenger Mirror Motor Down Control	I	-
C	0.35	BN/WH	1498	Passenger Mirror Motor Left/Down Control	I	-
D	0.5	BK	450	Ground	I	-
E	0.5	RD/WH	4340	Battery Positive Voltage	I	-
F	0.35	L-GN	89	Driver Mirror Motor Down Control	I	-
G	0.35	WH	81	Driver Mirror Motor Right Control	I	-
H	0.35	YE	88	Driver Mirror Motor Up Control	I	-

S64D Seat Adjuster Switch - Driver (AG1)



Connector Part Information

Harness Type: Driver Seat

OEM Connector: 12066386

Service Connector: 12116251

Description: 8-Way F Pin Grip Connectors (GY)

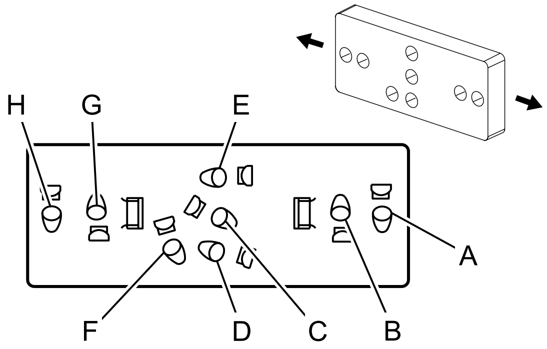
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness– See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S64D Seat Adjuster Switch - Driver (AG1)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	L-BU	283	Driver Seat Rear Vertical Motor Down Control	I	-
B	3	YE	282	Driver Seat Rear Vertical Motor Up Control	I	-
C	3	BK	450	Ground	I	-
D	3	TN	285	Driver Seat Horizontal Motor Forward Control	I	-
E	3	L-GN	284	Driver Seat Horizontal Motor Rearward Control	I	-
F	3	RD/WH	3540	Battery Positive Voltage	I	-
G	3	D-BU	287	Driver Seat Front Vertical Motor Down Control	I	-
H	3	D-GN	286	Driver Seat Front Vertical Motor Up Control	I	-

S64P Seat Adjuster Switch - Passenger (AG2)



Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 12066386

Service Connector: 12116251

Description: 8-Way F Pin Grip Connectors (GY)

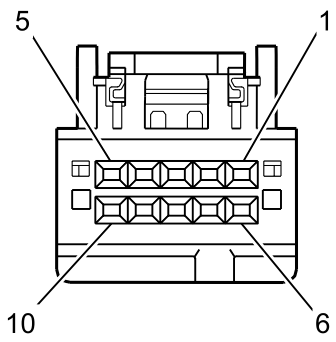
Terminal Part Information

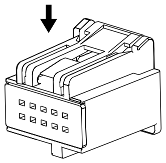
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness– See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S64P Seat Adjuster Switch - Passenger (AG2)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	L-BU	289	Passenger Seat Rear Vertical Motor Down Control	I	-
B	3	YE	288	Passenger Seat Rear Vertical Motor Up Control	I	-
C	3	BK	1850	Ground	I	-
D	3	TN	296	Passenger Seat Horizontal Motor Forward Control	I	-
E	3	L-GN	290	Passenger Seat Horizontal Motor Rearward Control	I	-
F	3	RD/WH	3540	Battery Positive Voltage	I	-
G	3	D-BU	298	Passenger Seat Front Vertical Motor Down Control	I	-
H	3	D-GN	297	Passenger Seat Front Vertical Motor Up Control	I	-

S70L Steering Wheel Controls Switch - Left (K34)





Connector Part Information

Harness Type: Steering Wheel

OEM Connector: 30700-1100

Service Connector: Service by Harness – See Part Catalog

Description: 10-Way F H-DAC 64 Series (GY)

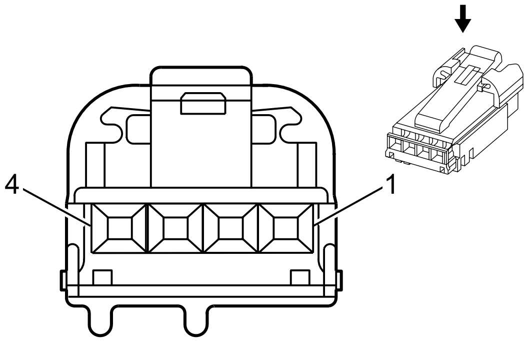
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness - See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S70L Steering Wheel Controls Switch - Left (K34)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	YE	1444	12-Volt Reference	I	-
2	-	-	-	Not Occupied	-	-
3	0.35	GY	1884	Cruise Control Switch Signal	I	-
4–5	-	-	-	Not Occupied	-	-
6	0.35	PK	6136	Supply Voltage	I	-
7	-	-	-	Not Occupied	-	-
8	0.35	BK	350	Ground	I	-
9	0.35	D-GN/WH	7158	Cruise Control Indicator Dimming Signal	I	-
10	-	-	-	Not Occupied	-	-

S70R Steering Wheel Controls Switch - Right (W1Y)



Connector Part Information

Harness Type: Steering Wheel

OEM Connector: 31068-1010

Service Connector: 19153195

Description: 4-Way F H-DAC 64 Series (BK)

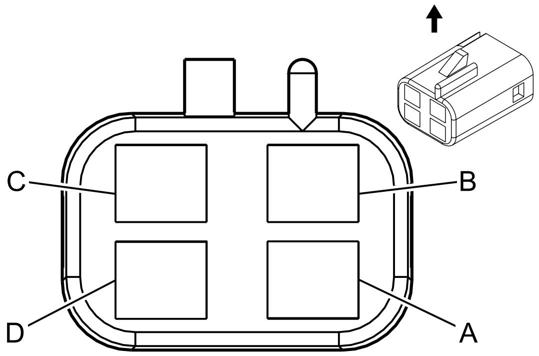
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 19153195	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

S70R Steering Wheel Controls Switch - Right (W1Y)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	BK	350	Ground	I	-
2	0.35	PK	6136	Supply Voltage	I	-
3	0.35	YE	1444	12-Volt Reference	I	-
4	0.35	D-GN	6818	Steering Wheel Control Signal	I	-

S74 Tow/Haul Mode Switch



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12047785

Service Connector: 12102900

Description: 4-Way F Metri-Pack 150 Series (BK)

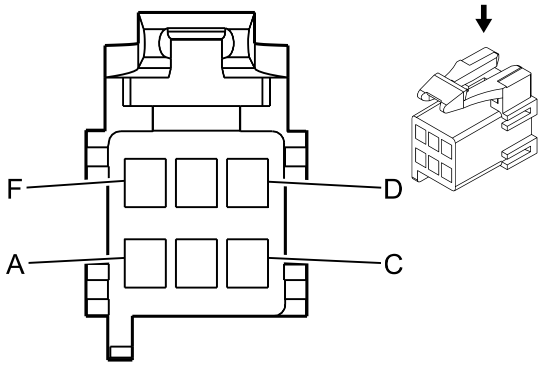
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	5	E	C

S74 Tow/Haul Mode Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BK/WH	351	Ground	I	-
B	0.35	BN/WH	230	Instrument Panel Lamps Dimming Control	I	-
C	-	-	-	Not Occupied	-	-
D	0.35	L-BU	1788	Tow/Haul Switch Signal	I	-

S75 Traction Control Switch (JL4)



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12177195

Service Connector: 15305931

Description: 6-Way F Metri-Pack 150 Series (BK)

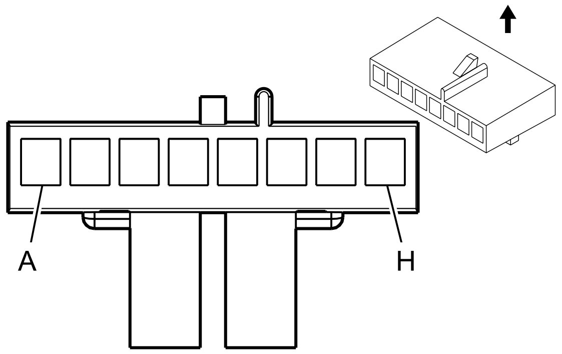
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575725	J-35616-14 (GN)	J-38125-12A	12129484	19	E	C

S75 Traction Control Switch (JL4)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A–B	-	-	-	Not Occupied	-	-
C	0.35	BK/WH	351	Ground	I	-
D	0.35	BN/WH	230	Instrument Panel Lamps Dimming Control	I	-
E	-	-	-	Not Occupied	-	-
F	0.5	D-BU	6727	Traction Control Preference Switch Signal	I	-

S78 Turn Signal/Multifunction Switch X1



Connector Part Information

Harness Type: Steering Column

OEM Connector: 15466859

Service Connector: Service by Harness – See Part Catalog

Description: 8-Way F Metri-Pack 150 Series (L-GY)

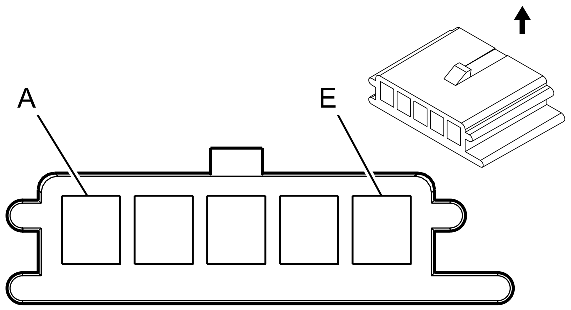
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	5	E	C

S78 Turn Signal/Multifunction Switch X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A–B	-	-	-	Not Occupied	-	-
C	0.35	BK/WH	351	Ground	I	-
D	0.35	TN	664	Hazard Switch Turn Right Signal	I	-
E	0.35	D-GN	663	Hazard Switch Left Turn Signal	I	-
F	0.35	BK/WH	351	Ground	I	-
G	0.35	WH	111	Theft Deterrent Alarm Enable Signal	I	-
H	-	-	-	Not Occupied	-	-

S78 Turn Signal/Multifunction Switch X2



Connector Part Information

Harness Type: Steering Column

OEM Connector: 15466858

Service Connector: Service by Harness – See Part Catalog

Description: 5-Way F Metri-Pack 150 Series (CR)

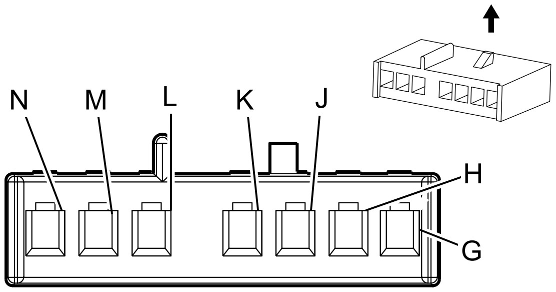
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	5	E	C

S78 Turn Signal/Multifunction Switch X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A–B	-	-	-	Not Occupied	-	-
C	0.35	YE	525	Headlamp Dimmer Switch Low Beam Signal	I	-
D	0.35	BK/WH	351	Ground	I	-
E	0.35	YE	307	Headlamp Switch Flash to Pass Signal	I	-

S78 Turn Signal/Multifunction Switch X3



Connector Part Information

Harness Type: Steering Column

OEM Connector: 15339058

Service Connector: Service by Harness – See Part Catalog

Description: 7-Way F Metri-Pack 150 Series (GY)

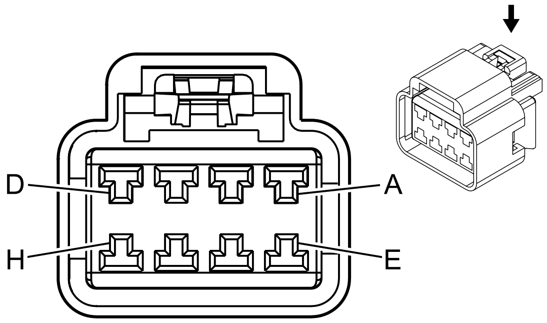
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	5	E	C

S78 Turn Signal/Multifunction Switch X3

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
G–J	-	-	-	Not Occupied	-	-
K	0.35	L-GN	1715	Windshield Wiper Switch High Signal	I	-
L	0.35	PK	94	Windshield Washer Switch Signal	I	-
M	0.35	TN/BK	6009	Low Reference	I	-
N	0.35	L-BU	1714	Windshield Wiper Switch Low Signal	I	-

S79D Window Switch - Driver (A31)



Connector Part Information

Harness Type: Driver Door

OEM Connector: 15459914

Service Connector: 19153751

Description: 8-Way F GT 280 Series (BK)

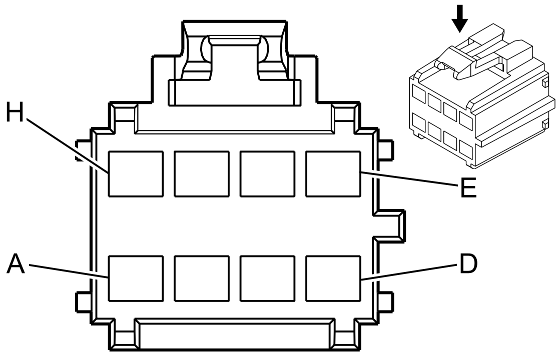
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: A, C–D, F–H – 13575756	J-35616-4A (PU)	J-38125-553	Pins: A, C–D, F–H – 15304713	19	Pins: A, C–D, F–H – F	D

S79D Window Switch - Driver (A31)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	L-BU	166	Power Window Master Switch Right Front Up Signal	I	-
B	0.35	BN/WH	230	Instrument Panel Lamps Dimming Control	I	-
C	3	D-GN	1001	RAP 12-Volt Fuse Control	I	-
D	3	TN	167	Power Window Master Switch Right Front Down Signal	I	-
E	-	-	-	Not Occupied	-	-
F	3	BK	450	Ground	I	-
G	3	D-BU	164	Power Window Motor Left Front Up Control	I	-
H	3	BN	165	Power Window Motor Left Front Down Control	I	-

S79P Window Switch - Passenger (A31)



Connector Part Information

Harness Type: Passenger Door

OEM Connector: 12191825

Service Connector: 15306048

Description: 8-Way F Metri-Pack 280 Series (BN)

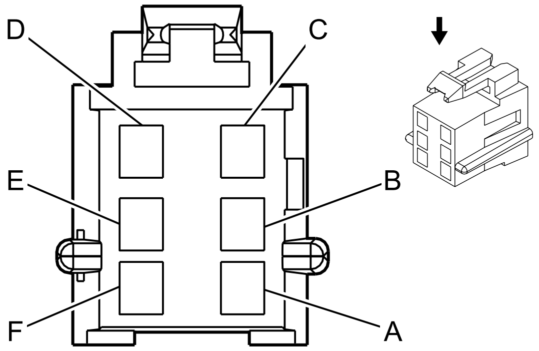
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: A, D, F–H – 13575756	J-35616-4A (PU)	J-38125-553	Pins: A, D, F–H – 15304713	19	Pins: A, D, F–H – F	D

S79P Window Switch - Passenger (A31)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	3	D-GN	1001	RAP 12-Volt Fuse Control	I	-
B	0.35	BN/WH	230	Instrument Panel Lamps Dimming Control	I	-
C	0.35	BK	1850	Ground	I	-
D	3	TN	167	Power Window Master Switch Right Front Down Signal	I	-
E	-	-	-	Not Occupied	-	-
F	3	BN	667	Power Window Motor Right Front Down Control	I	-
G	3	D-BU	666	Power Window Motor Right Front Up Control	I	-
H	3	L-BU	166	Power Window Master Switch Right Front Up Signal	I	-

S85 Auxiliary Blower Motor Switch



Connector Part Information

Harness Type: Rear Heater Switch

OEM Connector: 12064752

Service Connector: 15305888

Description: 6-Way F Metri-Pack 280 Series (BK)

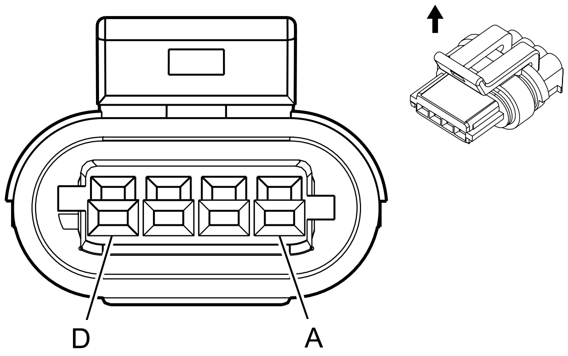
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12034046	2	E	A

S85 Auxiliary Blower Motor Switch

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BN/WH	230	Instrument Panel Lamps Dimming Control	I	-
B	0.35	BK	450	Ground	I	-
C	-	-	-	Not Occupied	-	-
D	0.35	WH	1924	Auxiliary Blower Motor High Control	I	-
E	0.35	D-BU	1926	Auxiliary Blower Motor Low Control	I	-
F	0.35	OG	1925	Auxiliary Blower Motor Medium Control	I	-

T8A Ignition Coil 1 (LC8, LMF, L20 or L96)



Connector Part Information

Harness Type: Left Ignition Coil

OEM Connector: 15439568

Service Connector: 88987184

Description: 4-Way F GT 150 Series, Sealed (BK)

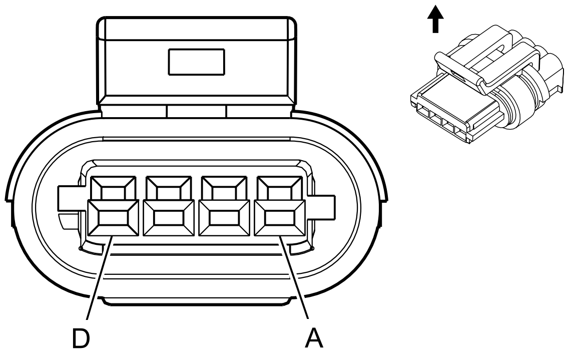
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575400	J-35616-2A (GY)	J-38125-553	15326267	19	Pins: A, D– E	1

T8A Ignition Coil 1 (LC8, LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	350	Ground	I	-
B	0.5	BN	2129	Low Reference	I	-
C	0.5	PU	2121	Ignition Coil 1 Control	I	-
D	0.8	PK	1039	Ignition Voltage	I	-

T8B Ignition Coil 2 (LC8, LMF, L20 or L96)



Connector Part Information

Harness Type: Right Ignition Coil

OEM Connector: 15439568

Service Connector: 88987184

Description: 4-Way F GT 150 Series, Sealed (BK)

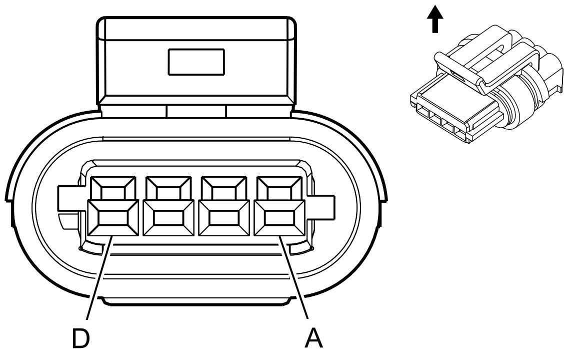
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575400	J-35616-2A (GY)	J-38125-553	15326267	19	Pins: A, D– E	1

T8B Ignition Coil 2 (LC8, LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	350	Ground	I	-
B	0.5	BN	2130	Low Reference	I	-
C	0.5	RD	2122	Ignition Coil 2 Control	I	-
D	0.8	PK	1239	Ignition Voltage	I	-

T8C Ignition Coil 3 (LC8, LMF, L20 or L96)



Connector Part Information

Harness Type: Left Ignition Coil

OEM Connector: 15439568

Service Connector: 88987184

Description: 4-Way F GT 150 Series, Sealed (BK)

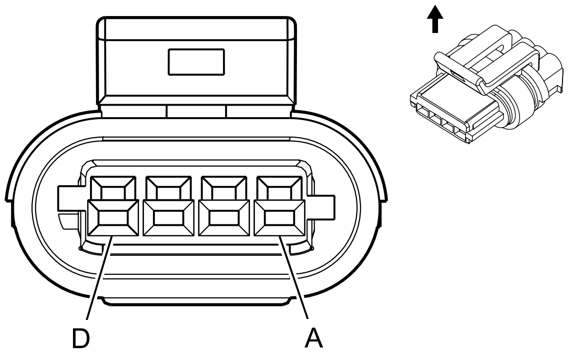
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575400	J-35616-2A (GY)	J-38125-553	15326267	19	Pins: A, D– E	1

T8C Ignition Coil 3 (LC8, LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	350	Ground	I	-
B	0.5	BN	2129	Low Reference	I	-
C	0.5	L-BU	2123	Ignition Coil 3 Control	I	-
D	0.8	PK	1039	Ignition Voltage	I	-

T8D Ignition Coil 4 (LC8, LMF, L20 or L96)



Connector Part Information

Harness Type:Right Ignition Coil

OEM Connector: 15439568

Service Connector: 88987184

Description: 4-Way F GT 150 Series, Sealed (BK)

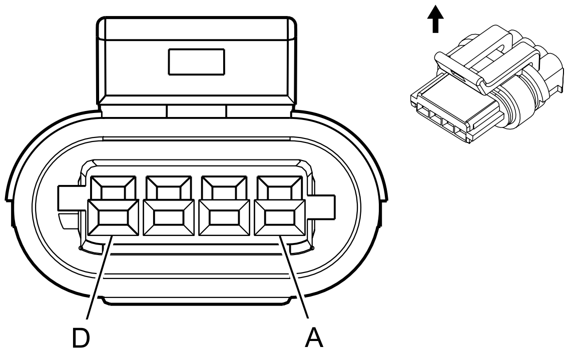
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575400	J-35616-2A (GY)	J-38125-553	15326267	19	Pins: A, D– E	1

T8D Ignition Coil 4 (LC8, LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	350	Ground	I	-
B	0.5	BN	2130	Low Reference	I	-
C	0.5	D-GN	2124	Ignition Coil 4 Control	I	-
D	0.8	PK	1239	Ignition Voltage	I	-

T8E Ignition Coil 5 (LC8, LMF, L20 or L96)



Connector Part Information

Harness Type: Left Ignition Coil

OEM Connector: 15439568

Service Connector: 88987184

Description: 4-Way F GT 150 Series, Sealed (BK)

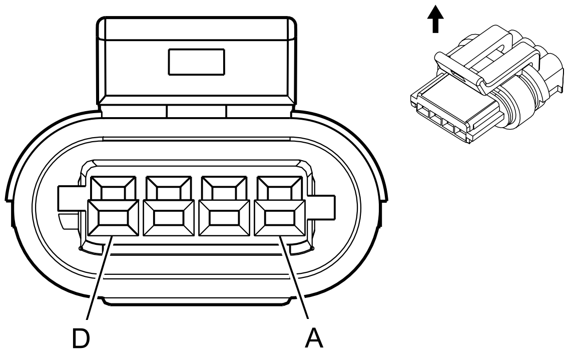
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575400	J-35616-2A (GY)	J-38125-553	15326267	19	Pins: A, D– E	1

T8E Ignition Coil 5 (LC8, LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	350	Ground	I	-
B	0.5	BN	2129	Low Reference	I	-
C	0.5	D-GN	2125	Ignition Coil 5 Control	I	-
D	0.8	PK	1039	Ignition Voltage	I	-

T8F Ignition Coil 6 (LC8, LMF, L20 or L96)



Connector Part Information

Harness Type: Right Ignition Coil

OEM Connector: 15439568

Service Connector: 88987184

Description: 4-Way F GT 150 Series, Sealed (BK)

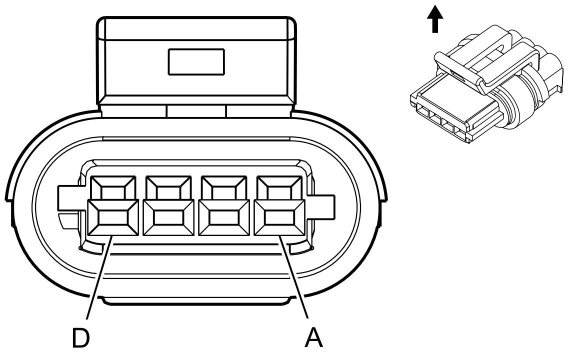
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575400	J-35616-2A (GY)	J-38125-553	15326267	19	Pins: A, D– E	1

T8F Ignition Coil 6 (LC8, LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	350	Ground	I	-
B	0.5	BN	2130	Low Reference	I	-
C	0.5	L-BU	2126	Ignition Coil 6 Control	I	-
D	0.8	PK	1239	Ignition Voltage	I	-

T8G Ignition Coil 7 (LC8, LMF, L20 or L96)



Connector Part Information

Harness Type: Left Ignition Coil

OEM Connector: 15439568

Service Connector: 88987184

Description: 4-Way F GT 150 Series, Sealed (BK)

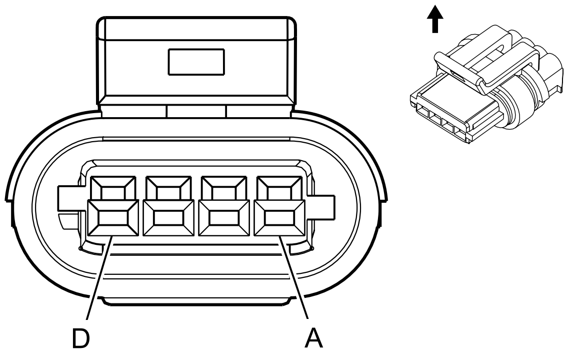
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575400	J-35616-2A (GY)	J-38125-553	15326267	19	Pins: A, D– E	1

T8G Ignition Coil 7 (LC8, LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	350	Ground	I	-
B	0.5	BN	2129	Low Reference	I	-
C	0.5	RD	2127	Ignition Coil 7 Control	I	-
D	0.8	PK	1039	Ignition Voltage	I	-

T8H Ignition Coil 8 (LC8, LMF, L20 or L96)



Connector Part Information

Harness Type: Right Ignition Coil

OEM Connector: 15439568

Service Connector: 88987184

Description: 4-Way F GT 150 Series, Sealed (BK)

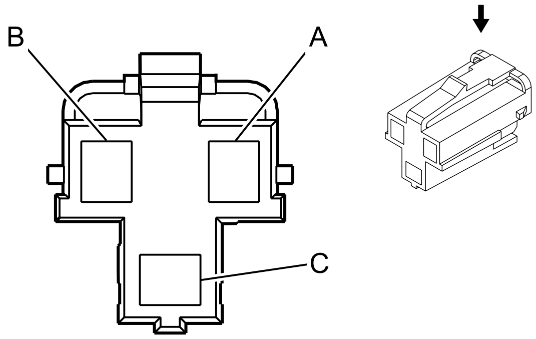
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575400	J-35616-2A (GY)	J-38125-553	15326267	19	Pins: A, D– E	1

T8H Ignition Coil 8 (LC8, LMF, L20 or L96)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	BK	350	Ground	I	-
B	0.5	BN	2130	Low Reference	I	-
C	0.5	PU	2128	Ignition Coil 8 Control	I	-
D	0.8	PK	1239	Ignition Voltage	I	-

X80B Accessory Power Receptacle - Center Console 2



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12176836

Service Connector: 19257374

Description: 3-Way F Metri-Pack 280 Series (GY)

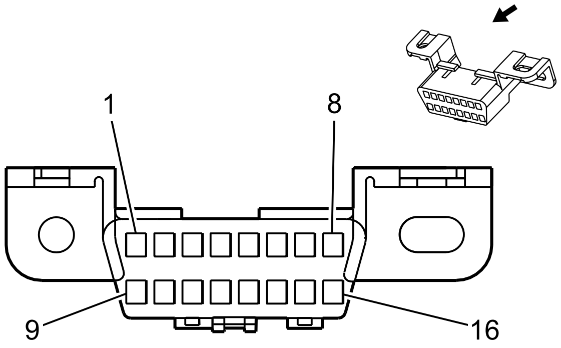
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575721	J-35616-4A (PU)	J-38125-553	12110844	4	C	A

X80B Accessory Power Receptacle - Center Console 2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	RD/WH	1040	Battery Positive Voltage	I	-
B	-	-	-	Not Occupied	-	-
C	0.8	BK	550	Ground	I	-

X84 Data Link Connector



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12110250

Service Connector: 12110250

Description: 16-Way F Metri-Pack 150 Series (BK)

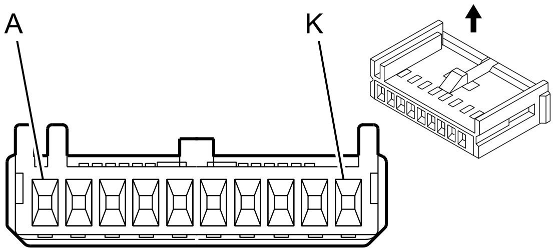
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575725	J-35616-14 (GN)	J-38125-12A	12129484	19	Pins: 1, 4-6, 14 – E	C

X84 Data Link Connector

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
1	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	-
2–3	-	-	-	Not Occupied	-	-
4	0.5	BK/WH	351	Ground	I	-
5	0.5	BK/WH	351	Ground	I	-
6	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
7–13	-	-	-	Not Occupied	-	-
14	0.5	TN	2501	High Speed GMLAN Serial Data Bus (−)	I	-
15	-	-	-	Not Occupied	-	-
16	0.8	RD/WH	640	Battery Positive Voltage	I	-

X85 Steering Wheel Air Bag Coil X1



Connector Part Information

Harness Type: Steering Column

OEM Connector: 15393433

Service Connector: 22710638

Description: 10-Way F Micro-Pack 064 Series (BK)

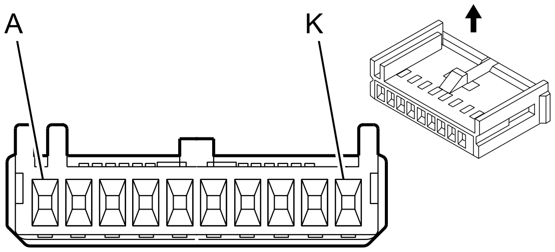
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-64B (L-BU)	J-38125-559	12177007	19	E	2

X85 Steering Wheel Air Bag Coil X1

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	BK	350	Ground	I	-
B	0.35	TN	28	Horn Relay Control	I	-
C	0.35	D-GN/WH	7158	Cruise Control Indicator Dimming Signal	I	-
D–E	-	-	-	Not Occupied	-	-
F	0.35	PK	1444	12-Volt Reference	I	-
G	0.35	BN	6136	Supply Voltage	I	-
H	0.35	L-GN	6818	Steering Wheel Control Signal	I	-
J	-	-	-	Not Occupied	-	-
K	0.35	GY	1884	Cruise Control Switch Signal	I	-

X85 Steering Wheel Air Bag Coil X2



Connector Part Information

Harness Type: Steering Wheel

OEM Connector: 15393433

Service Connector: 22710638

Description: 10-Way F Micro-Pack 064 Series (BK)

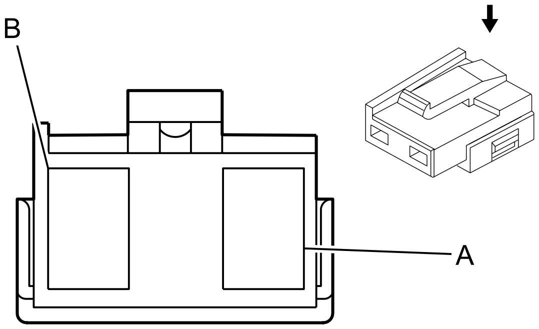
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness - See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X85 Steering Wheel Air Bag Coil X2

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	GY	1884	Cruise Control Switch Signal	I	-
B	-	-	-	Not Occupied	-	-
C	0.35	D-GN	6818	Steering Wheel Control Signal	I	-
D	0.35	PK	6136	Supply Voltage	I	-
E	0.35	YE	1444	12-Volt Reference	I	-
F–G	-	-	-	Not Occupied	-	-
H	0.35	D-GN/WH	7158	Cruise Control Indicator Dimming Signal	I	-
J	0.35	OG	28	Horn Relay Control	I	-
K	0.35 0.5	BK BK	350 350	Ground Ground	I	K34/W1Y without K34/W1Y

X87LB Sliding Door Jamb Contact Plate - Left Body (E26 with AU3)



Connector Part Information

Harness Type: Body

OEM Connector: 12034343

Service Connector: 12101821

Description: 2-Way F Metri-Pack 280 Series (BK)

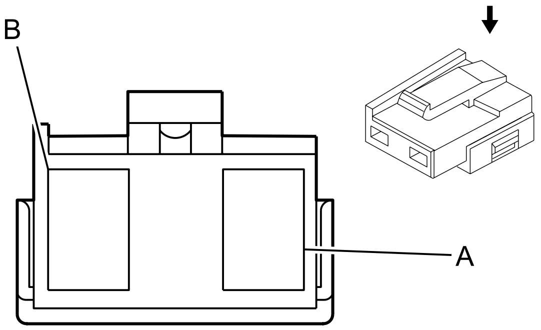
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12066214	2	Not Available	Not Available

X87LB Sliding Door Jamb Contact Plate - Left Body (E26 with AU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	294	Door Lock Actuator Unlock Control	I	-
B	0.8	GY	295	Door Lock Actuator Lock Control	I	-

X87RB Sliding Door Jamb Contact Plate - Right Body (Passenger or Cargo with AU3)



Connector Part Information

Harness Type: Body

OEM Connector: 12034343

Service Connector: 12101821

Description: 2-Way F Metri-Pack 280 Series (BK)

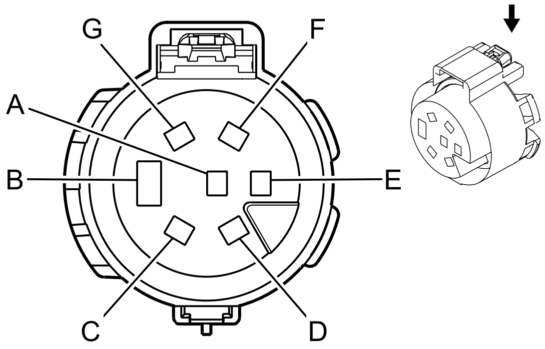
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12066214	2	Pin A– Not Available	Pin A– Not Available

X87RB Sliding Door Jamb Contact Plate - Right Body (Passenger or Cargo with AU3)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.8	TN	294	Door Lock Actuator Unlock Control	I	-
B	0.8	GY	295	Door Lock Actuator Lock Control	I	-

X88 Trailer Connector (UY7)



Connector Part Information

Harness Type: Chassis

OEM Connector: 15354653

Service Connector: 15306164

Description: 7-Way F Metri-Pack 280, Sealed (BK)

Terminal Part Information

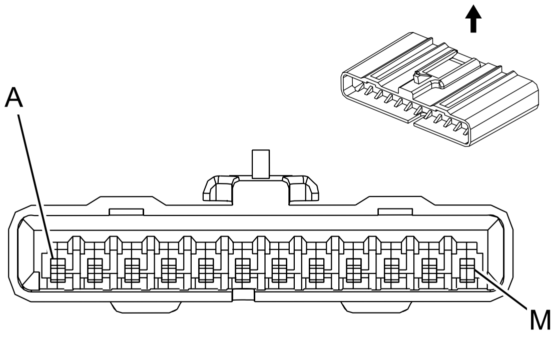
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-553	12110845	4	Pins: A, D, F, G– Not Available	Pins: A, D, F, G– Not Available
II	Service by Connector Assembly - 15354653	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X88 Trailer Connector (UY7)

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	1	L-GN	1624	Trailer Backup Lamps Control	I	-
B	8	WH	22	Ground	-	-
C	3	D-BU	47	Trailer Auxiliary Control	I	-
D	1	D-GN	1619	Trailer Right Rear Turn/Stop Lamp Control	I	-
E	3	RD/BK	742	Battery Positive Voltage	I	-
F	1	BN	2109	Trailer Park Lamps Control	I	-
G	1	YE	1618	Trailer Left Rear Turn/Stop Lamp Control	I	-

Splice Pack Connector End Views

JX200



Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12176461

Service Connector: 15305914

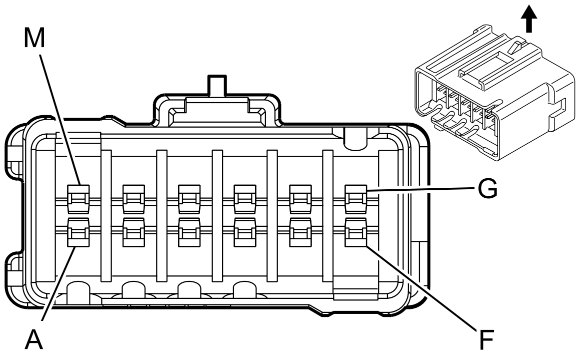
Description: 12-Way F GT 150 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575735	J-35616-2A (GY)	J-38125-553	12191812	19	E	C

JX200

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	-
B	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	-
C	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	AU0
D	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	-
E	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	-
F	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	-
G	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	-
H	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	UD7
J	0.35	D-GN	5060	Low Speed GMLAN Serial Data	I	Light Duty without YF7
K	-	-	-	Not Occupied	-	-
L	0.5	D-GN	5060	Low Speed GMLAN Serial Data	I	UE1
M	0.5	D-GN	5060	Low Speed GMLAN Serial Data	I	U2K



Connector Part Information

- Harness Type: Instrument Panel
- OEM Connector: 15305288
- Service Connector: 12167610
- Description: 12-Way F Metri-Pack 280 (BK)

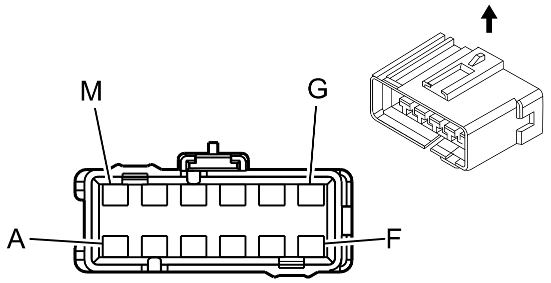
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575721	J-35616-4A (PU)	J-38125-553	12110844	4	E	A

JX250

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
B	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
C	0.5	TN/BK	2500	High Speed GMLAN Serial Data Bus (+)	I	-
D–J	-	-	-	Not Occupied	-	-
K	0.5	TN	2501	High Speed GMLAN Serial Data Bus (-)	I	-
L	0.5	TN	2501	High Speed GMLAN Serial Data Bus (-)	I	-
M	0.5	TN	2501	High Speed GMLAN Serial Data Bus (-)	I	-

JX347



Connector Part Information

Harness Type: Body

OEM Connector: 12191928

Service Connector: 88986418

Description: 12-Way F Metri-Pack 280 Series (BK)

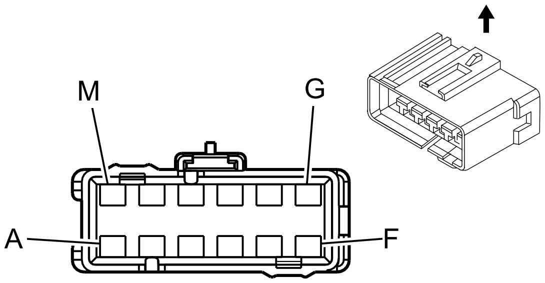
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575721	J-35616-4A (PU)	J-38125-553	12110844	4	Pins: A–B, M – E	4
II	Pending	J-35616-4A (PU)	J-38125-11A	15324340	19	F	G

JX347

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK	450	Ground	I	-
B	0.35	BK	450	Ground	I	E26
C	-	-	-	Not Occupied	-	-
D	5	BK	450	Ground	II	ENC
E	3	BK	450	Ground	II	-
F	3	BK	450	Ground	II	AG1
G	-	-	-	Not Occupied	-	-
H	5	BK	450	Ground	II	YF1 or YF7
J	0.5	BK	450	Ground	I	YF7
K–L	-	-	-	Not Occupied	-	-
M	0.35	BK	450	Ground	I	C36 or ENC

JX348



Connector Part Information

Harness Type: Body

OEM Connector: 12191928

Service Connector: 88986418

Description: 12-Way F Metri-Pack 280 Series (BK)

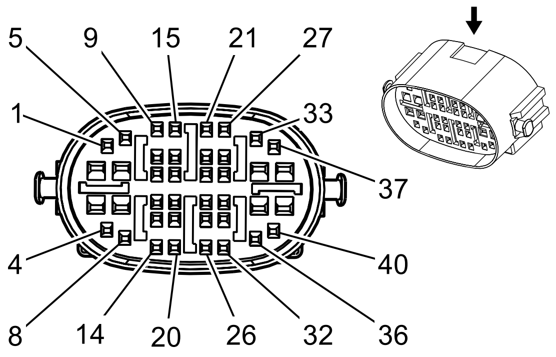
Terminal Part Information

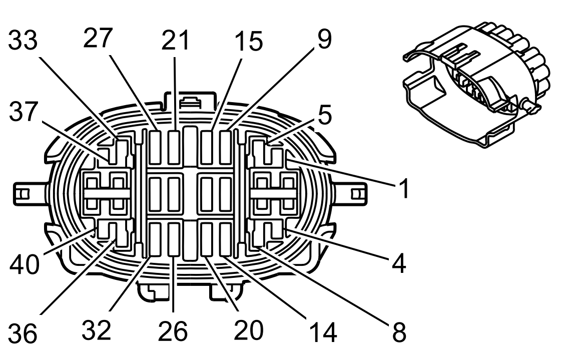
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575721	J-35616-4A (PU)	J-38125-553	12110844	4	Pins: A–B, M – E	4
II	Pending	J-35616-4A (PU)	J-38125-11A	15324340	19	F	G

JX348

Pin	Size	Color	Circuit	Function	Terminal Type ID	Option
A	0.35	BK	1850	Ground	I	-
B	0.8	BK	1850	Ground	I	-
C	3	BK	1850	Ground	-	AG2
D	0.35	BK	1850	Ground	II	-
E-H	-	-	-	Not Occupied	-	-
J	1	BK	1850	Ground	I	-
K–M	-	-	-	Not Occupied	-	-

X100 Instrument Panel Harness to Engine Chassis Harness (Diesel)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13601803

Service Connector: 19166997

Description: 40-Way F GT 150 280 Series Sealed (BK)

Connector Part Information

Harness Type: Engine Chassis

OEM Connector: 13605375

Service Connector: 19169297

Description: 40-Way M GT 150 280 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: 1, 9 (LGH or LMM), 18 – 13327112	J-35616-2A (GY)	J-38125-553	Pins: 1, 4-5, 8-20, 24-26, 30-33, 36-37, 40 – 12191819	8	Pins: 1, 4, 9-11, 13–19, 24–26, 30–33, 36–37, 40 – E	1
II	Pins: 2-3, 6 – 13575405	J-35616-4A (PU)	J-38125-553	Pins: 2-3, 6, 34-35, 38-39 – 15304719	19	Pins: 2-3, 6 – 2	5
III	Pins: 1, 4, 10, 11, 13–17, 19, 24–26, 30–33, 36–37, 40 – 13575398	J-35616-3 (GY)	J-38125-553	Pins: 1, 4, 8–19, 24–26, 30–33, 36–37, 40 – 15326269	19	Pins: 1, 4, 14-19, 21-33, 36-37, 40 – E	4
IV	Pins: 2-3, 6 – 13327135	J-35616-5 (PU)	J-38125-553	Pins: 2-3, 6–7, 34-35, 38-39 – 15304731	19	Pins: 2-3, 6 – C	5

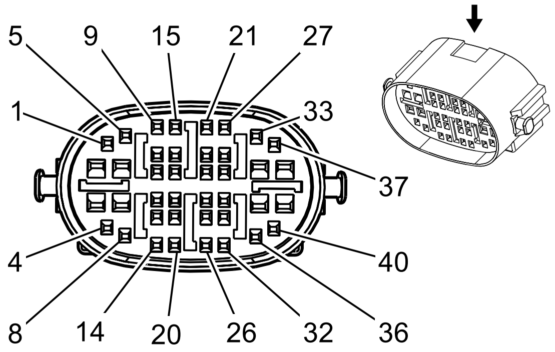
X100 Instrument Panel Harness to Engine Chassis Harness (Diesel)

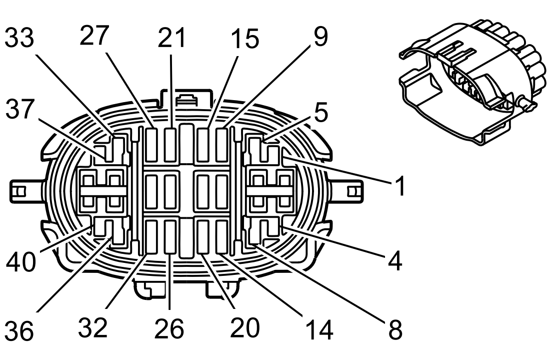
Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
1	0.35	L-BU/WH	6311	I	-	Torque Converter Clutch (TCC) Brake Signal	1	0.5	L-BU/WH	6311	III	-
2	0.8	OG	52	II	-	Blower Motor High Control	2	0.8	OG	52	IV	-
3	0.8	L-BU	72	II	-	Medium 2 Blower Motor Control	3	0.8	L-BU	72	IV	-
4	0.5	OG	1732	I	-	Courtesy Lamp Control	4	0.5	OG	1732	III	-

5	0.8	BN	141	I	-	Ignition Voltage	5	0.8	BN	141	-	-
6	0.8	TN	63	II	-	Blower Motor Medium Control	6	0.8	TN	63	IV	-
7	2	BK	1250	II	-	Ground	7	2	BK	1250	IV	-
8	0.8	YE	60	I	-	Blower Motor Low Control	8	0.8	YE	60	III	-
9	0.35	D-BU	507	I	-	Wait to Start Indicator Control	9	0.5	D-BU	507	III	-
10, 11	-	-	-	-	-	Not Occupied	10, 11	-	-	-	-	-
12	0.5	L-GN	1478	I	-	Coolant Level Switch Signal	12	0.5	L-GN	1478	III	-
13	0.5	BK/WH	351	I	-	Ground	13	0.5	BK/WH	351	III	-
14	0.5	L-GN	66	I	C60	A/C Request Signal	14	0.5	L-GN	66	III	C60
15	0.5	L-BU	5986	I	-	Serial Data Communication Enable	15	0.5	L-BU	5986	III	-
16	0.5	L-GN	66	I	C60	A/C Request Signal	16	0.5	L-GN	66	III	C60
17	0.5	PU	333	I	-	Brake Fluid Level Sensor Signal	17	0.5	PU	333	III	-
18	0.35	BN/WH	419	I	-	MIL Control	18	0.5	BN/WH	419	III	-
19	0.5	D-BU	5985	I	-	Accessory Wakeup Serial Data	19	0.5	D-BU	5985	III	-
20	-	-	-	-	-	Not Occupied	20	-	-	-	-	-
21	0.35	BN	1271	I	-	Low Reference	21	0.5	BN	1271	III	-
22	0.35	WH/BK	1164	I	-	5-Volt Reference	22	0.5	WH/BK	1164	III	-
23	0.35	TN	1274	I	-	5-Volt Reference	23	0.5	TN	1274	III	-
24	0.5	GY	6044	I	JL4	5-Volt Reference	24	0.5	GY	6044	III	JL4
25	0.5	YE	6046	I	JL4	Steering Angle Sensor Phase A	25	0.5	YE	6046	III	JL4
26	0.5	TN	6048	I	JL4	Steering Angle Sensor Phase C	26	0.5	TN	6048	III	JL4
27	0.35	D-BU	1161	I	-	Accelerator Pedal Position (APP) Sensor 1 Signal	27	0.5	D-BU	1161	III	-
28	0.35	PU	1272	I	-	Low Reference	28	0.5	PU	1272	III	-
29	0.35	L-BU	1162	I	-	Accelerator Pedal Position (APP) Sensor 2 Signal	29	0.5	L-BU	1162	III	-

30	0.5	OG/BK	6045	I	JL4	Low Reference	30	0.5	OG/BK	6045	III	JL4
31	0.5	D-BU	6047	I	JL4	Steering Angle Sensor Phase B	31	0.5	D-BU	6047	III	JL4
32	0.5	L-GN	6043	I	JL4	Steering Angle Sensor Signal	32	0.5	L-GN	6043	III	JL4
33	0.5	TN/BK	2500	I	-	High Speed GMLAN Serial Data Bus (+)	33	0.5	TN/BK	2500	III	-
34	0.5	BN/WH	6437	II	JL4	CAN Bus High Terminated Serial Data	34	0.5	BN/WH	6437	IV	JL4
35	0.5	GY/BK	1337	II	JL4	5-Volt Reference	35	0.5	GY/BK	1337	IV	JL4
36	0.5	TN/BK	2500	I	-	High Speed GMLAN Serial Data Bus (+)	36	0.5	TN/BK	2500	III	-
37	0.5	TN	2501	I	-	High Speed GMLAN Serial Data Bus (−)	37	0.5	TN	2501	III	-
38	0.5	WH/BK	6436	II	JL4	CAN Bus Low Terminated Serial Data	38	0.5	WH/BK	6436	IV	JL4
39	0.5	BK/PU	7499	II	JL4	Low Reference	39	0.5	BK/PU	7499	IV	JL4
40	0.5	TN	2501	I	-	High Speed GMLAN Serial Data Bus (−)	40	0.5	TN	2501	III	-

X100 Instrument Panel Harness to Engine Harness (Gas)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13601803

Service Connector: 19166997

Description: 40-Way F GT 150 280 Series Sealed (BK)

Connector Part Information

Harness Type: Engine

OEM Connector: 13605375

Service Connector: 19169297

Description: 40-Way M GT 150 280 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: 1, 9 (LGH or LMM), 18 – 13327112	J-35616-2A (GY)	J-38125-553	Pins: 1, 4-5, 8-20, 24-26, 30-33, 36-37, 40 – 12191819	8	Pins: 1, 4, 9-11, 13–19, 24–26, 30–33, 36–37, 40 – E	1
II	Pins: 2-3, 6 – 13575405	J-35616-4A (PU)	J-38125-553	Pins: 2-3, 6, 34-35, 38-39 – 15304719	19	Pins: 2-3, 6 – 2	5
III	Pins: 1, 4, 10, 11, 13–17, 19, 24–26, 30–33, 36–37, 40 – 13575398	J-35616-3 (GY)	J-38125-553	Pins: 1, 4, 8–19, 24–26, 30–33, 36–37, 40 – 15326269	19	Pins: 1, 4, 14-19, 21-33, 36-37, 40 – E	4
IV	Pins: 2-3, 6 – 13327135	J-35616-5 (PU)	J-38125-553	Pins: 2-3, 6–7, 34-35, 38-39 – 15304731	19	Pins: 2-3, 6 – C	5

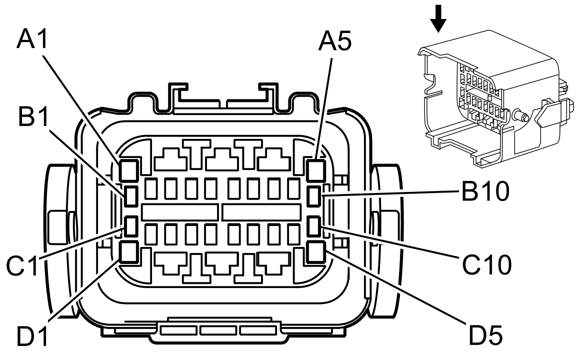
X100 Instrument Panel Harness to Engine Harness (Gas)

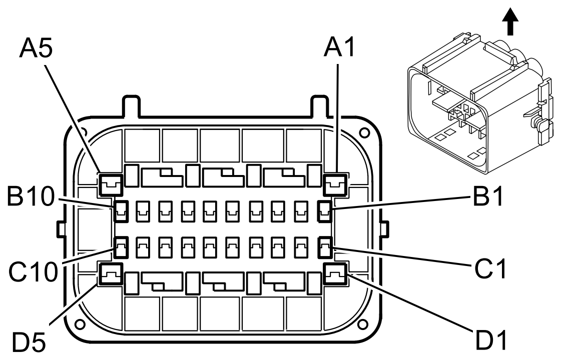
Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
1	0.35	L-BU/WH	6311	I	-	Torque Converter Clutch (TCC) Brake Signal	1	0.5	L-BU/WH	6311	III	-
2	0.8	OG	52	II	-	Blower Motor High Control	2	0.8	OG	52	IV	-
3	0.8	L-BU	72	II	-	Medium 2 Blower Motor Control	3	0.8	L-BU	72	IV	-
4	0.5	OG	1732	I	-	Courtesy Lamp Control	4	0.5	OG	1732	III	-

5	-	-	-	-	-	Not Occupied	5	-	-	-	-	-
6	0.8	TN	63	II	-	Blower Motor Medium Control	6	0.8	TN	63	IV	-
7	2	BK	1250	II	-	Ground	7	2	BK	1250	IV	-
8	0.8	YE	60	I	-	Blower Motor Low Control	8	0.8	YE	60	III	-
9	0.5	BK/WH	451	I	-	Ground	9	0.8	BK/WH	451	III	-
10	0.5	PK	5076	I	-	5-Volt Reference	10	0.5	PK	5076	III	-
11	0.5	BN	5077	I	-	Low Reference	11	0.5	BN	5077	III	-
12	-	-	-	-	-	Not Occupied	12	-	-	-	-	-
13	0.5	WH	5075	I	-	Battery Current Sensor Signal	13	0.5	WH	5075	III	-
14	0.5	L-GN	66	I	C60	A/C Request Signal	14	0.5	L-GN	66	III	C60
15	0.5	L-BU	5986	I	-	Serial Data Communication Enable	15	0.5	L-BU	5986	III	-
16	0.5	L-GN	66	I	C60	A/C Request Signal	16	0.5	L-GN	66	III	C60
17	0.5	PU	333	I	-	Brake Fluid Level Sensor Signal	17	0.5	PU	333	III	-
18	0.35	BN/WH	419	I	-	MIL Control	18	0.35	BN/WH	419	III	-
19	0.5	D-BU	5985	I	-	Accessory Wakeup Serial Data	19	0.5	D-BU	5985	III	-
20	-	-	-	-	-	Not Occupied	20	-	-	-	-	-
21	0.35	BN	1271	I	-	Low Reference	21	0.35	BN	1271	III	-
22	0.35	WH/BK	1164	I	-	5-Volt Reference	22	0.35	WH/BK	1164	III	-
23	0.35	TN	1274	I	-	5-Volt Reference	23	0.35	TN	1274	III	-
24	0.5	GY	6044	I	JL4	5-Volt Reference	24	0.5	GY	6044	III	JL4
25	0.5	YE	6046	I	JL4	Steering Angle Sensor Phase A	25	0.5	YE	6046	III	JL4
26	0.5	TN	6048	I	JL4	Steering Angle Sensor Phase C	26	0.5	TN	6048	III	JL4
27	0.35	D-BU	1161	I	-	Accelerator Pedal Position (APP) Sensor 1 Signal	27	0.35	D-BU	1161	III	-
28	0.35	PU	1272	I	-	Low Reference	28	0.5	PU	1272	III	-
29	0.35	L-BU	1162	I	-	Accelerator Pedal Position (APP) Sensor 2 Signal	29	0.5	L-BU	1162	III	-

30	0.5	OG/BK	6045	I	JL4	Low Reference	30	0.5	OG/BK	6045	III	JL4
31	0.5	D-BU	6047	I	JL4	Steering Angle Sensor Phase B	31	0.5	D-BU	6047	III	JL4
32	0.5	L-GN	6043	I	JL4	Steering Angle Sensor Signal	32	0.5	L-GN	6043	III	JL4
33	0.5	TN/BK	2500	I	-	High Speed GMLAN Serial Data Bus (+)	33	0.5	TN/BK	2500	III	-
34	0.5	BN/WH	6437	II	JL4	CAN Bus High Terminated Serial Data	34	0.5	BN/WH	6437	IV	JL4
35	0.5	GY/BK	1337	II	JL4	5-Volt Reference	35	0.5	GY/BK	1337	IV	JL4
36	0.5	TN/BK	2500	I	-	High Speed GMLAN Serial Data Bus (+)	36	0.5	TN/BK	2500	III	-
37	0.5	TN	2501	I	-	High Speed GMLAN Serial Data Bus (−)	37	0.5	TN	2501	III	-
38	0.5	WH/BK	6436	II	JL4	CAN Bus Low Terminated Serial Data	38	0.5	WH/BK	6436	IV	JL4
39	0.5	BK/PU	7499	II	JL4	Low Reference	39	0.5	BK/PU	7499	IV	JL4
40	0.5	TN	2501	I	-	High Speed GMLAN Serial Data Bus (−)	40	0.5	TN	2501	III	-

X101 Chassis Harness to Engine Harness (LC8, LMF, LU3, L20 or L96)





Connector Part Information

Harness Type: Chassis

OEM Connector: 15355480

Service Connector: 19181242

Description: 30-Way F GT 150 Sealed (BK)

Connector Part Information

Harness Type: Engine

OEM Connector: 15450272

Service Connector: 89046785

Description: 30-Way M GT 150, 280 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: A1, D5 – 13327132	J-35616-4A (PU)	J-38125-553	15304719	19	E	5
II	Service with Terminal from Repair Kit	J-35616-42 (RD)	J-38125-11A	15305232	23	B/4/3	B/4/3
III	13575412	J-35616-2A (GY)	J-38125-553	12191819	8	E	1
IV	13327134	J-35616-5 (PU)	J-38125-553	15304731	19	E	5
V	Service with Terminal from Repair Kit	J-35616-43 (RD)	J-38125-11A	12064734	8	E	3
VI	Pins: B1–B5, B7–B8, C1–C7 – 13575398	J-35616-3 (GY)	J-38125-553	15326269	19	E	4

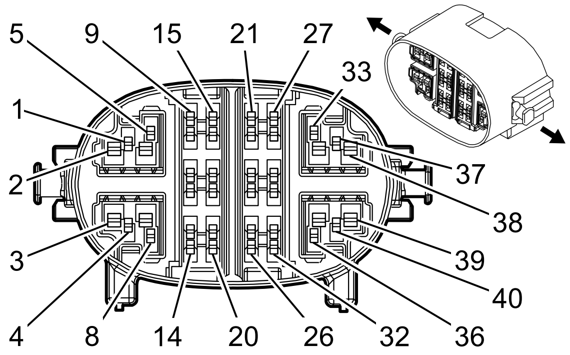
X101 Chassis Harness to Engine Harness (LC8, LMF, LU3, L20 or L96)

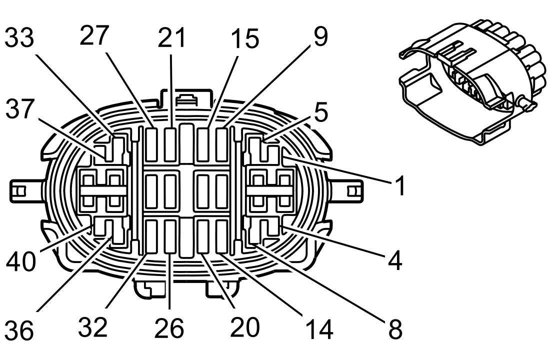
Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A1	0.5	YE	6046	I II	JL4	Steering Angle Sensor Phase A	A1	0.5	YE	6046	IV V	JL4
A2	0.5	D-BU	6047	II	JL4	Steering Angle Sensor Phase B	A2	0.5	D-BU	6047	V	JL4
A3	0.5	TN	6048	II	JL4	Steering Angle Sensor Phase C	A3	0.5	TN	6048	V	JL4
A4–A5	-	-	-	-	-	Not Occupied	A4–A5	-	-	-	-	-

A5							A5					
B1	0.5	GY	2709	III	-	5-Volt Reference	B1	0.5	GY	2709	VI	-
B2	0.5	D-GN	890	III	-	Fuel Tank Pressure Sensor Signal	B2	0.5	D-GN	890	VI	-
B3	0.5	TN/BK	2500	III	-	High Speed GMLAN Serial Data Bus (+)	B3	0.5	TN/BK	2500	VI	-
B4	0.5	PU	333	III	Light Duty	Brake Fluid Level Sensor Signal	B4	0.5	PU	333	VI	Light Duty
B5	0.5	TN/BK	2500	III	-	High Speed GMLAN Serial Data Bus (+)	B5	0.5	TN/BK	2500	VI	-
B6	0.5	YE/BK	1827	III	-	Vehicle Speed Signal	B6	0.35	YE/BK	1827	VI	-
B7	0.5	GY/BK	1337	III	JL4	5-Volt Reference	B7	0.5	GY/BK	1337	VI	JL4
B8	0.5	BK/PU	7499	III	JL4	Low Reference	B8	0.5	BK/PU	7499	VI	JL4
B9–B10	-	-	-	-	-	Not Occupied	B9–B10	-	-	-	-	-
C1	0.5	TN	2759	III	-	Low Reference	C1	0.5 0.5	TN/BK TN	6049 2759	VI	LU3 or LMF L20 or L96
C2	0.5	PU	1589	III	-	Fuel Level Sensor Signal	C2	0.5	PU	1589	VI	-
C3	0.5	TN	2501	III	-	High Speed GMLAN Serial Data Bus (−)	C3	0.5	TN	2501	VI	-
C4	0.5	L-GN	6043	III	JL4	Steering Angle Sensor Signal	C4	0.5	L-GN	6043	VI	JL4
C5	0.5	TN	2501	III	-	High Speed GMLAN Serial Data Bus (−)	C5	0.5	TN	2501	VI	-
C6	0.5	WH/BK	6436	III	JL4	CAN Bus Low Terminated Serial Data	C6	0.5	WH/BK	6436	VI	JL4
C7	0.5	BN/WH	6437	III	JL4	CAN Bus High Terminated Serial Data	C7	0.5	BN/WH	6437	VI	JL4
C8	-	-	-	-	-	Not Occupied	C8	-	-	-	-	-
C9	0.35	D-GN/WH	465	III III	LMF	Fuel Pump Relay Control	C9	0.35	D-GN/WH	465	VI VI	LMF
C10	-	-	-	-	-	Not Occupied	C10	-	-	-	-	-
D1	0.5	L-BU	5986	I II	-	Serial Data Communication Enable	D1	0.5	L-BU	5986	IV V	-
D2	0.5	GY	6044	II	JL4	5-Volt Reference	D2	0.5	GY	6044	V	JL4
D3	0.5	OG/BK	6045	II	JL4	Low Reference	D3	0.5	OG/BK	6045	V	JL4

D3	0.5	OG/BK	6045	II	JL4	Low Reference	D3	0.5	OG/BK	6045	V	JL4
D4	-	-	-	-	-	Not Occupied	D4	-	-	-	-	-
D5	0.5	WH	1310	I II	-	Evaporative Emission (EVAP) Canister Vent Solenoid Control	D5	0.5	WH	1310	IV V	-

X101 Engine Chassis Harness to Chassis Harness (LGH)





Connector Part Information

Harness Type: Engine Chassis

OEM Connector: 13601804

Service Connector: 19166998

Description: 40-Way F GT 150 280 Series, Sealed (GY)

Connector Part Information

Harness Type: Chassis

OEM Connector: 13605376

Service Connector: 19169298

Description: 40-Way M GT 150 280 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575412	J-35616-2A (GY)	J-38125-553	12191819	8	Pins: 1, 9–18, 21–27, 29, 31, 33, 36–37 – E	1
II	13575405	J-35616-4A (PU)	J-38125-553	15304719	19	Pins: 2–3, 6–7, 38–39 – E	5
III	Service by Harness - See Part Catalog	J-35616-2A (GY)	J-38125-553	15326427	5	Pins: 4 – E	A
IV	13327138	J-35616-3 (GY)	J-38125-553	15326269	19	Pins: 1, 9–18, 21–27, 29, 31, 36–37 – E	4
V	13580825	J-35616-5 (PU)	J-38125-553	15304731	19	Pins: 2–3, 6–7, 38–39 – E	5
VI	Pending	J-35616-3 (GY)	J-38125-553	15373403	5	Pins: 4–5 – E	1

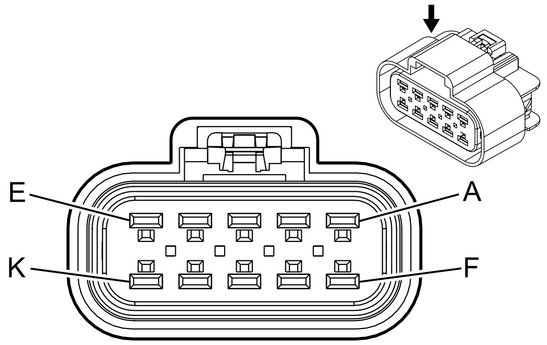
X101 Engine Chassis Harness to Chassis Harness (LGH)

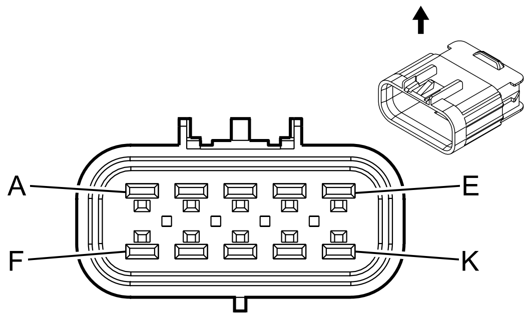
Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
1	0.5	TN/BK	2500	I	-	High Speed GMLAN Serial Data (+) (1)	1	0.5	TN/BK	2500	IV	-
2	0.5	PK	2139	II	-	Ignition 1 Voltage	2	0.5	PK	2139	V	-
3	0.5	OG/BK	1786	II	-	Transmission Park/Neutral Signal 1	3	0.5	OG/BK	1786	V	-
4	0.5	L-BU	5377	III	-	Exhaust Gas Temperature Sensor 2	4	0.8	L-BU	5377	VI	-

				III		Exhaust Gas Temperature Sensor 2 Signal					VI	
5	0.8	BN/WH	6783	III	-	Low Reference	5	0.8	BN/WH	6783	VI	-
6	0.5	TN	2501	II	-	High Speed GMLAN Serial Data (-) (1)	6	0.5	TN	2501	V	-
7	0.5	BN	3108	II	-	DEF Pressure Sensor Signal	7	0.5	BN	3108	V	-
8	1	OG/WH	3677	I	-	DEF Resevoir Heater Control	8	1	OG/WH	3677	IV	-
9	0.5	BK	3102	I	-	DEF Reverting Valve Low Control	9	0.5	BK	3102	IV	-
10	0.5	D-GN	3101	I	-	DEF Reverting Valve High Control	10	0.5	D-GN	3101	IV	-
11	0.5	L-GN	7494	I	-	High Speed GMLAN Serial Data (-) (3)	11	0.5	L-GN	7494	IV	-
12	0.5	OG/BK	6399	I	-	Replicated TOS Signal	12	0.5	OG/BK	6399	IV	-
13	0.5	D-GN	7493	I	-	High Speed GMLAN Serial Data (+) (3)	13	0.5	D-GN	7493	IV	-
14	0.5	TN/BK	2500	I	-	High Speed GMLAN Serial Data (+) (1)	14	0.5	TN/BK	2500	IV	-
15	0.5	TN	2501	I	-	High Speed GMLAN Serial Data (-) (1)	15	0.5	TN	2501	IV	-
16	0.5	YE/BK	1827	I	-	Vehicle Speed Signal	16	0.5	YE/BK	1827	IV	-
17	0.5	L-BU/WH	6311	I	-	Cruise/ETC/TCC Brake Signal	17	0.5	L-BU/WH	6311	IV	-
18	0.35	RD/WH	1840	I	-	Battery Positive Voltage	18	0.35	RD/WH	1840	IV	-
19	0.8	D-GN	7493	III	-	High Speed GMLAN Serial Data (+) (3)	19	0.5	D-GN	7493	VI	-
20	0.8	L-GN	7494	III	-	High Speed GMLAN Serial Data (-) (3)	20	0.5	L-GN	7494	VI	-
21	0.5	TN	2759	I	-	Low Reference	21	0.35	TN	2759	IV	-
22	0.5	PU	1589	I	-	Fuel Level Sensor Signal	22	0.35	PU	1589	IV	-
23	0.5	GY	3103	I	-	DEF Smart Pump Supply Voltage	23	0.5	GY	3103	IV	-
24	0.5	TN	3104	I	-	DEF Smart Pump Low Reference	24	0.5	TN	3104	IV	-
25	0.5	D-BU	3105	I	-	DEF Smart Pump Control	25	0.5	D-BU	3105	IV	-
26	0.5	D-BU	5985	I	-	Accessory Wakeup Serial Data	26	0.5	D-BU	5985	IV	-

						Serial Data						
27	0.5	GY	3106	I	-	5V Reference	27	0.5	GY	3106	IV	-
28	1	PK/BK	5293	I	-	Ignition Voltage	28	1	PK/BK	5293	IV	-
29	0.5	TN	3107	I	-	Low Reference	29	0.5	TN	3107	IV	-
30	1	TN	3673	I	-	Nox Sensor 1 Ground	30	1	TN	3673	IV	-
31	0.5	L-BU	5986	I	-	Serial Data Communication Enable	31	0.5	L-BU	5986	IV	-
32	0.8	BK/WH	1551	I	-	Ground	32	0.8	BK/WH	1551	IV	-
33	0.5	PU	3674	I	-	Nox Sensor 1 Supply Voltage	33	1	PU	3674	IV	-
34	1	PU/WH	3199	II	-	DEF Pressure Line Heater Control	34	1	GY/WH	3675	V	-
35	1	GY/WH	3675	II	-	DEF Pump Heater Control	35	1	GY/WH	3675	V	-
36	0.5	D-BU	6863	I	-	Low Reference	36	0.5	D-BU	6863	IV	-
37	0.5	D-BU/YE	6861	I	-	Water In Fuel Sensor Signal	37	0.5	D-BU/YE	6861	IV	-
38	0.5	TN/BK	2500	II	-	High Speed GMLAN Serial Data (+) (1)	38	0.5	TN/BK	2500	V	-
39	0.5	TN	2501	II	-	High Speed GMLAN Serial Data (-) (1)	39	0.5	TN	2501	V	-
40	-	-	-	-	-	Not Occupied	40	-	-	-	-	-

X103 Instrument Panel Harness to Engine Harness





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15326660

Service Connector: 88986262

Description: 10-Way F GT 280 5.8 Series, Sealed (BK)

Connector Part Information

Harness Type: Engine

OEM Connector: 15326661

Service Connector: 88986245

Description: 10-Way M GT 280 5.8 Series, Sealed (BK)

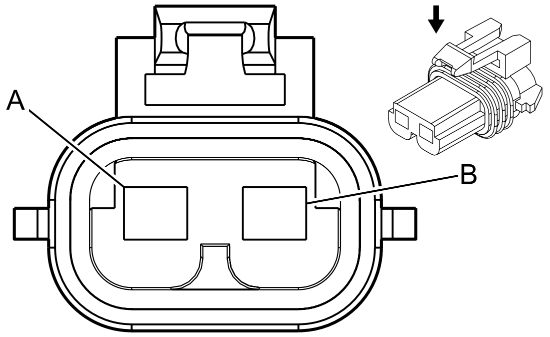
Terminal Part Information

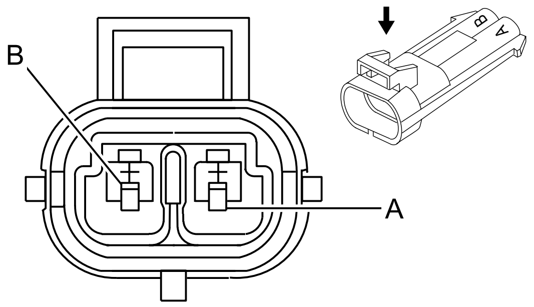
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-4A (PU)	J-38125-553	15304719	19	E	5
II	13580825	J-35616-5 (PU)	J-38125-553	15304731	19	E	5

X103 Instrument Panel Harness to Engine Harness

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A-B	-	-	-	-	-	Not Occupied	A-B	-	-	-	-	-
C	0.5	WH	5359	I	-	Brake Apply Sensor Supply Voltage	C	0.5	WH	5359	II	-
D-F	-	-	-	-	-	Not Occupied	D-F	-	-	-	-	-
G	0.5	BN	5360	I	-	Brake Apply Sensor Low Reference	G	0.5	BN	5360	II	-
H	-	-	-	-	-	Not Occupied	H	-	-	-	-	-
J	0.5	YE	5361	I	-	Brake Apply Sensor Signal	J	0.5	YE	5361	II	-
K	-	-	-	-	-	Not Occupied	K	-	-	-	-	-

X104 Instrument Panel Harness to Front Impact Sensor Jumper





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12077900

Service Connector: 12116247

Description: 2-Way F Metri-Pack 280 Series, Sealed (BK)

Connector Part Information

Harness Type: Front Impact Sensor Jumper

OEM Connector: 15317807

Service Connector: 19149308

Description: 2-Way M Metri-Pack 280 (BK)

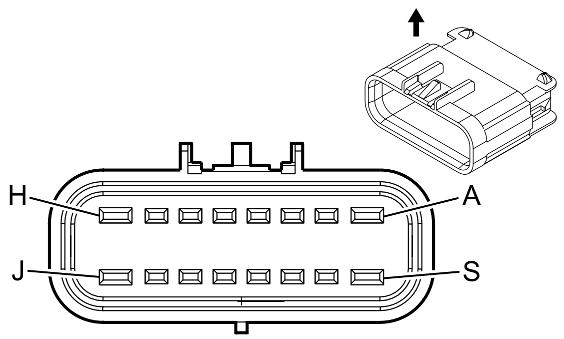
Terminal Part Information

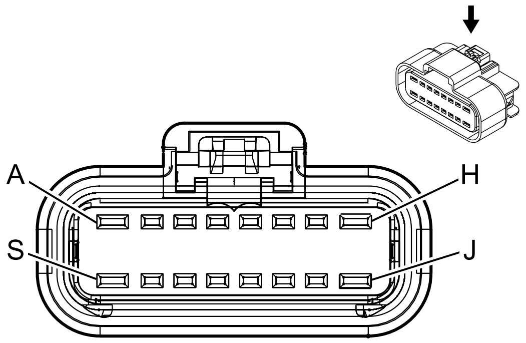
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575418	J-35616-4A (PU)	J-38125-11A	12077411	2	2	5
II	Pending	J-35616-5 (PU)	J-38125-11A	12048159	2	2	5

X104 Instrument Panel Harness to Front Impact Sensor Jumper

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	BN/WH	6618	I	-	Discriminating Sensor–Signal	A	0.5	BN/WH	6618	II	-
B	0.5	D-BU/WH	6619	I	-	Low Reference	B	0.5	D-BU/WH	6619	II	-

X105 Engine Harness to Chassis Harness (LGH)





Connector Part Information

Harness Type: Engine

OEM Connector: 15326085

Service Connector: 19181245

Description: 16-Way M GT 150 280 Sealed 4.0 5.8 (BK)

Connector Part Information

Harness Type: Chassis

OEM Connector: 15326084

Service Connector: 15306348

Description: 16-Way F GT 150 280 Sealed 4.0 5.8 (BK)

Terminal Part Information

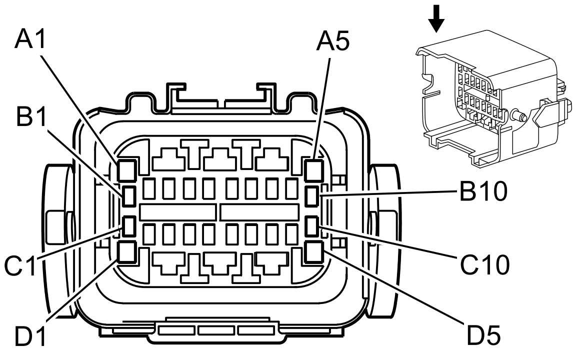
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-3 (GY)	J-38125-553	15326269	19	E	4
II	Pending	J-35616-2A (GY)	J-38125-553	12191819	8	E	1

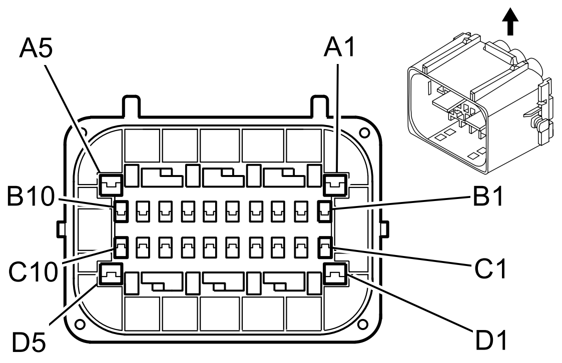
X105 Engine Harness to Chassis Harness (LGH)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	-	-	-	-	-	Not Occupied	A	-	-	-	-	-
B	0.5	BN/WH	6437	I	JL4	CAN Bus High Terminated Serial Data	B	0.5	BN/WH	6437	II	JL4
C	0.5	WH/BK	6436	I	JL4	CAN Bus Low Terminated Serial Data	C	0.5	WH/BK	6436	II	JL4
D	0.5	GY	6044	I	JL4	5-Volt Reference	D	0.5	GY	6044	II	JL4
E	0.5	OG/BK	6045	I	JL4	Low Reference	E	0.5	OG/BK	6045	II	JL4
F	0.5	YE	6046	I	JL4	Steering Angle Sensor Phase A	F	0.5	YE	6046	II	JL4
G	0.5	TN/BK	2500	I	-	High Speed GMLAN Serial Data Bus (+)	G	0.5	TN/BK	2500	II	-
H, J	-	-	-	-	-	Not Occupied	H, J	-	-	-	-	-
K	0.5	GY/BK	1337	I	JL4	5-Volt Reference	K	0.5	GY/BK	1337	II	JL4
L	0.5	BK/PU	7499	I	JL4	Low Reference	L	0.5	BK/PU	7499	II	JL4

M	0.5	D-BU	6047	I	JL4	Steering Angle Sensor Phase B	M	0.5	D-BU	6047	II	JL4
N	0.5	TN	6048	I	JL4	Steering Angle Sensor Phase C	N	0.5	TN	6048	II	JL4
P	0.5	L-GN	6043	I	JL4	Steering Angle Sensor Signal	P	0.5	L-GN	6043	II	JL4
R	0.5	TN	2501	I	-	High Speed GMLAN Serial Data Bus (-)	R	0.5	TN	2501	II	-
S	-	-	-	-	-	Not Occupied	S	-	-	-	-	-

X107 Engine Chassis Harness to Engine Harness (LGH)





Connector Part Information

Harness Type: Engine Chassis

OEM Connector: 15355480

Service Connector: 19181242

Description: 30-Way F GT 150 Sealed (BK)

Connector Part Information

Harness Type: Engine

OEM Connector: 15450272

Service Connector: 89046785

Description: 30-Way M GT 150, 280 Series, Sealed (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15304719	19	2	5
II	13575412			15305232	23	B/4/3	B/4/3
III	13575412			12191819	8	E	1
IV	13575412			12191819	8	2	1
V				15304732	8	A	5
VI				12064734	8	E	3
VII				15304731	19	2	5
VIII				15326269	19	E	4
IX				15326269	19	E	1

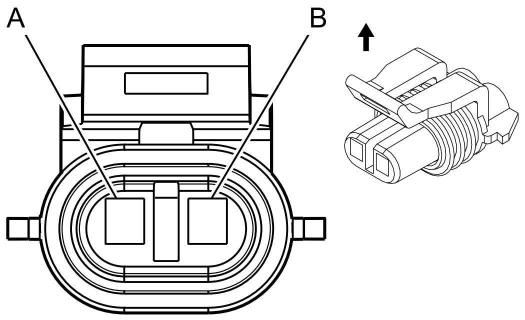
X107 Engine Chassis Harness to Engine Harness (LGH)

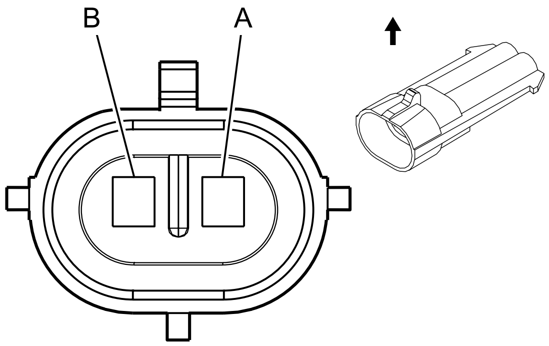
Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A1	1	OG/WH	3677	I	-	DEF Resevoir Heater Control	A1	2	OG/WH	3677	V	-
A2	-	-	-	-	-	Not Occupied	A2	-	-	-	-	-
A3	0.5	TN	3680	-	-	Charge Air Cooler Outlet Temperature Sensor Return	A3	0.5	TN	3680	-	-
A4	0.5	BN	3681	-	-	Charge Air Cooler Outlet Temperature Sensor Signal	A4	0.5	BN	3681	-	-

						Sensor Signal						
A5	1	PU/WH	3199	I	-	DEF Pressure Line Heater Control	A5	1	PU/WH	3199	VII	-
B1	0.5	PU	3674	III	-	Nox Sensor 1 Supply Voltage	B1	0.5	PU	3674	-	-
B2	0.5	TN/BK	2500	III	-	High Speed GMLAN Serial Data (+) (1)	B2	0.5	TN/BK	2500	-	-
B3	0.5	D-BU	5985	III	-	Accessory Wakeup Serial Data	B3	0.5	D-BU	5985	-	-
B4	0.5	PK	439	III	-	Run/Crank Ignition 1 Voltage	B4	0.5	PK	2139	-	-
B5	0.5	D-BU	6863	III	-	Water In Fuel Sensor Low Reference	B5	0.5	D-BU	6863	-	-
B6	0.5	D-BU/YE	6861	III	-	Water In Fuel Sensor Signal	B6	0.5	D-BU/YE	6861	-	-
B7	-	-	-	-	-	Not Occupied	B7	-	-	-	-	-
B8	0.5	BN	5360	III	-	Brake Apply Sensor Low Reference	B8	0.5	BN	5360	-	-
B9	0.5	TN/BK	2500	III	-	High Speed GMLAN Serial Data (+) (1)	B9	0.5	TN/BK	2500	-	-
B10	1	GY	3672	III IV	-	Nox Sensor 2 Supply Voltage	B10	0.5	GY	3672	-	-
C1	1	TN	3673	IV IV	-	Nox Sensor 1 Ground	C1	1	TN	3673	VIII IX	-
C2	0.5	TN	2501	III IV	-	High Speed GMLAN Serial Data (-) (1)	C2	0.5	TN	2501	VIII	-
C3	0.8	D-BU	2926	IV	-	Hydrocarbon Injector High Control	C3	0.5	D-BU	2926	VIII	-
C4	0.8	PU	2927	IV	-	Hydrocarbon Injector Low Control	C4	0.5	PU	2927	VIII	-
C5	0.5	YE/BK	1827	III IV	-	Vehicle Speed Signal	C5	0.5	YE/BK	1827	VIII	-
C6	-	-	-	-	-	Not Occupied	C6	-	-	-	-	-
C7	0.5	WH	5359	IV	-	Brake Apply Sensor Supply Voltage	C7	0.5	WH	5359	VIII	-
C8	0.5	YE	5361	IV	-	Brake Apply Sensor Signal	C8	0.5	YE	5361	VIII	-
C9	0.5	TN	2501	III IV	-	High Speed GMLAN Serial Data (-) (1)	C9	0.5	TN	2501	VIII	-
C10	1	TN/BK	3671	IV IV	-	Nox Sensor 2 Ground	C10	1	TN/BK	3671	VIII IX	-

D1	1	GY/WH	3675	I	-	DEF Pump Heater Control	D1	2	GY/WH	3675	V	-
D2–D5	-	-	-	-	-	Not Occupied	D2–D5	-	-	-	-	-

X109 Engine Chassis Harness to Underhood Lamp Harness (Diesel)





Connector Part Information

Harness Type: Engine Chassis

OEM Connector: 12052641

Service Connector: 13586114

Description: 2-Way F Metri-Pack 150 Series (BK)

Connector Part Information

Harness Type: Underhood Lamp

OEM Connector: 12162000

Service Connector: 12167120

Description: 2-Way M Metri-Pack 150 Series (BK)

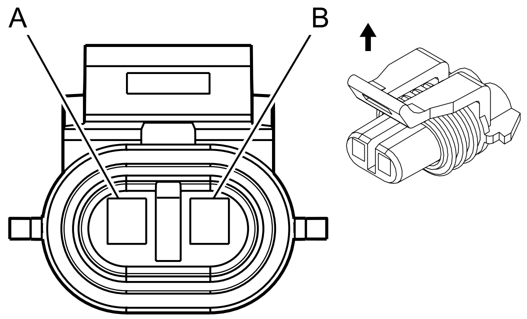
Terminal Part Information

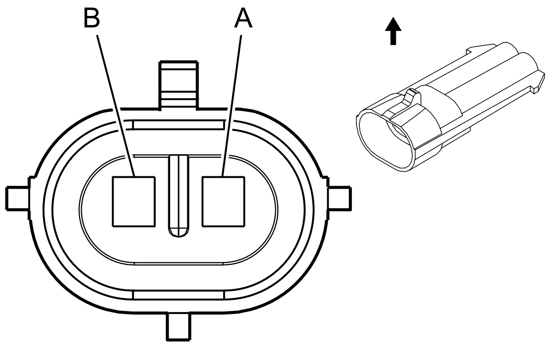
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-14 (GN)	J-38125-559	12124075	5	E	C
II	13575420	J-35616-3 (GY)	J-38125-12A	12045773	2	E	1

X109 Engine Chassis Harness to Underhood Lamp Harness (Diesel)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	OG	1732	I	-	Courtesy Lamp Control	A	0.5	OG	1732	II	-
B	0.5	BK	1250	I	-	Ground	B	0.5	BK	1250	II	-

X109 Engine Harness to Underhood Lamp Harness (Gas)





Connector Part Information

Harness Type: Engine

OEM Connector: 12052641

Service Connector: 13586114

Description: 2-Way F Metri-Pack 150 Series (BK)

Connector Part Information

Harness Type: Underhood Lamp

OEM Connector: 12162000

Service Connector: 12167120

Description: 2-Way M Metri-Pack 150 Series (BK)

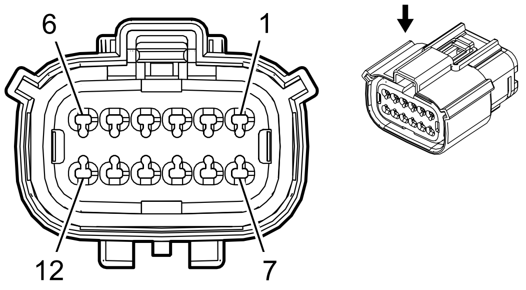
Terminal Part Information

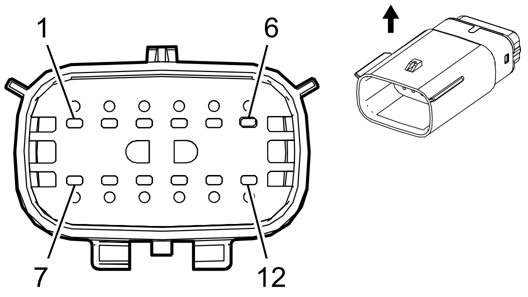
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A–13575419	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1
II	13575420	J-35616-3 (GY)	J-38125-12A	12045773	2	E	1

X109 Engine Harness to Underhood Lamp Harness (Gas)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	OG	1732	I	-	Courtesy Lamp Control	A	0.5	OG	1732	II	-
B	0.8	BK	1250	I	-	Ground	B	0.5	BK	1250	II	-

X110 Engine Jumper Harness to Engine Harness (LGH)





Connector Part Information

Harness Type: Engine Jumper

OEM Connector: 33472-1301

Service Connector: Service by Harness - See Part Catalog

Description: 12-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Engine

OEM Connector: 33482-1201

Service Connector: 13503540

Description: 12-Way M MX150 Series, Sealed (BK)

Terminal Part Information

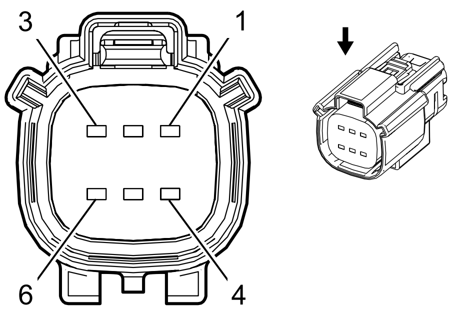
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Not Available	Not Available	Not Available	Service by Connector Assembly–33472-1301	Service by Connector Assembly–33472-1301	Not Available	Not Available
II				Pending	Pending	Pending	Pending

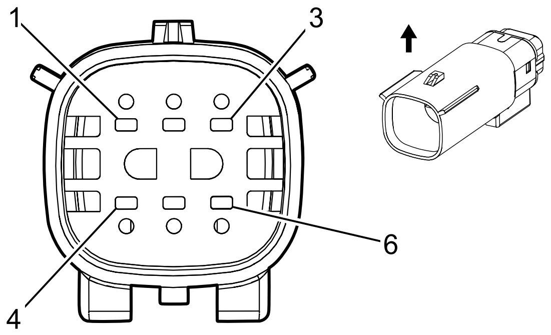
X110 Engine Jumper Harness to Engine Harness (LGH)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
1	0.5	YE	410	I	-	Engine Coolant Temperature Sensor Signal	1	0.5	YE	410	II	-
2	0.5	TN	2761	I	-	Coolant Temperature Sensor Low Reference	2	0.5	TN	2761	II	-
3	0.5	BN/GY	7072	I	-	Sensor Fuel Temperature 1 Signal	3	0.5	BN/GY	7072	II	-
4	0.5	BN/WH	7073	I	-	Sensor Fuel Temperature 1 Return	4	0.5	BN/WH	7073	II	-
5	0.5	YE	2928	I	-	Fuel Metering Valve High Control	5	0.5	YE	2928	II	-
6	0.5	BK	2929	I	-	Fuel Metering Valve Low Control	6	0.5	BK	2929	II	-
7	0.8	PU/WH	2530	I	-	Fuel Rail Pressure Solenoid Supply Voltage	7	0.8	PU/WH	2530	II	-
8	0.8	YE	2834	I	-	Fuel Rail Pressure	8	0.8	YE	2834	II	-

8	0.8	YE	2834	I	-	Fuel Rail Pressure Solenoid Low Reference	8	0.8	YE	2834	II	-
9	0.5	TN/WH	331	I	-	Oil Pressure Sensor Signal	9	0.5	TN/WH	331	II	-
10	0.5	BK	2755	I	-	Low Reference	10	0.5	BK	2755	II	-
11	0.5	GY	2705	I	-	5 Volt Reference	11	0.5	GY	2705	II	-
12	0.5	BN	1174	I	-	Oil Level Switch Signal	12	0.5	BN	1174	II	-

X112 Fuel Rail Jumper Harness to Engine Harness (LGH)





Connector Part Information

Harness Type: Fuel Rail Jumper

OEM Connector: 33472−0709

Service Connector: Service by Harness – See Part Catalog

Description: 6-Way F (BK)

Connector Part Information

Harness Type: Engine

OEM Connector: 33482-0606

Service Connector: 13576414

Description: 6-Way M MX150 Series, Sealed (BK)

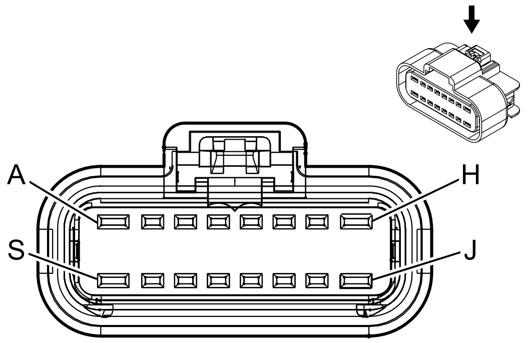
Terminal Part Information

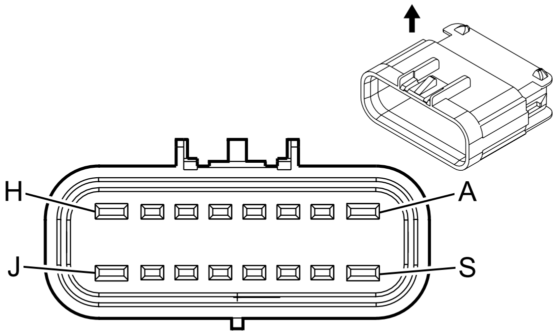
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				Service by Connector Assembly – 33472-0709	Service by Connector Assembly – 33472-0709	Not Available	Not Available
II				Pending	Pending	Pending	Pending

X112 Fuel Rail Jumper Harness to Engine Harness (LGH)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
1	0.5YE	0.5YE	1578	I	-	Fuel Temperature Signal	1	0.5YE	0.5YE	1578	II	-
2	0.5	BN	6062	I	-	Low Reference	2	0.5	BN	6062	II	-
3	-	-	-	-	-	Not Occupied	3	-	-	-	-	-
4	0.5	TN	2917	I	-	5 Volt Reference	4	0.5	TN	2917	II	-
5	0.5	YE	2918	I	-	Fuel Rail Pressure Sensor Signal	5	0.5	YE	2918	II	-
6	0.5	OG/BK	2919	I	-	Low Reference	6	0.5	OG/BK	2919	II	-

X115 Engine Chassis Harness to Catalytic Converter Jumper Harness (LGH Cutaway)





Connector Part Information

Harness Type: Engine Chassis

OEM Connector: 15326084

Service Connector: 15306348

Description: 16-Way F GT 150 280 Sealed 4.0 5.8 (BK)

Connector Part Information

Harness Type: Catalytic Converter Jumper

OEM Connector: 15326085

Service Connector: 19181245

Description: 16-Way M GT 150 280 Sealed 4.0 5.8 (BK)

Terminal Part Information

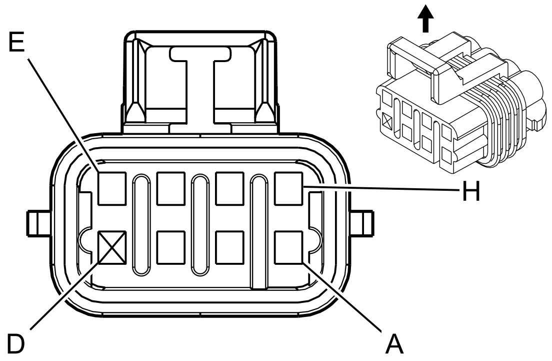
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15326427	5	E	A
II				15326427	5	2	1
III				Service by Connector Assembly – 15326084	Service by Connector Assembly – 15326084	Not Available	Not Available
IV				15373403	5	E	4
V				15373403	5	E	1
VI				Service by Connector Assembly – 15326085	Service by Connector Assembly – 15326085	Not Available	Not Available

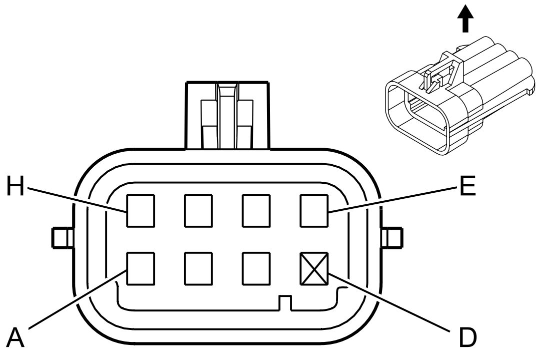
X115 Engine Chassis Harness to Catalytic Converter Jumper Harness (LGH Cutaway)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	1	TN/BK	3671	III	-	Nox Sensor 2 Ground	A	1	TN/BK	3671	VI	-
B	-	-	-	-	-	Not Occupied	B	-	-	-	-	-
C	0.5	TN	3657	I	-	Low Reference	C	0.5	TN	3657	IV	-
D	0.5	TN	3661	I	-	Low Reference	D	0.5	TN	3661	IV	-
E	0.5	GY	6054	I	-	5 Volt Reference	E	0.5	GY	6054	IV	-
F	1	GY	3672	II	-	Nox Sensor 2 Supply Voltage	F	1	GY	3672	V	-

G	0.8	D-GN	7493	II	-	High Speed GMLAN Serial Data (+) (3)	G	0.8	D-GN	7493	V	-
H	-	-	-	-	-	Not Occupied	H	-	-	-	-	-
J	-	-	-	-	-	Not Occupied	J	-	-	-	-	-
K	0.5	L-GN	5378	I	-	Exhaust Gas Temperature Sensor 3 Signal	K	0.5	L-GN	5378	IV	-
L	0.5	D-BU/WH	3660	I	-	Exhaust Gas Temperature Sensor 4 Signal	L	0.5	D-BU/WH	3660	IV	-
M	0.5	YE/BK	6055	I	-	Low Reference	M	0.5	YE/BK	6055	IV	-
N	0.5	D-BU	6053	I	-	DPF Sensor Signal	N	0.5	D-BU	6053	IV	-
P	0.8	L-GN	7494	II	-	High Speed GMLAN Serial Data (-) (3)	P	0.8	L-GN	7494	V	-
R	0.8	BN/WH	3100	II	-	DEF Dosing Valve Low Control	R	0.8	BN/WH	3100	V	-
S	0.8	BN	3099	III	-	DEF Dosing Valve High Control	S	0.8	BN	3099	VI	-

X126 Engine Harness to Left Ignition Coil Harness (LC8, LMF, LU3, L20 or L96)





Connector Part Information

Harness Type: Engine

OEM Connector: 12047938

Service Connector: 13580883

Description: 8-Way F Metri-Pack 150 Series, Sealed (L-GY)

Connector Part Information

Harness Type: Left Ignition Coil

OEM Connector: 12047933

Service Connector: 12102490

Description: 8-Way M Metri-Pack 150 Series (GY)

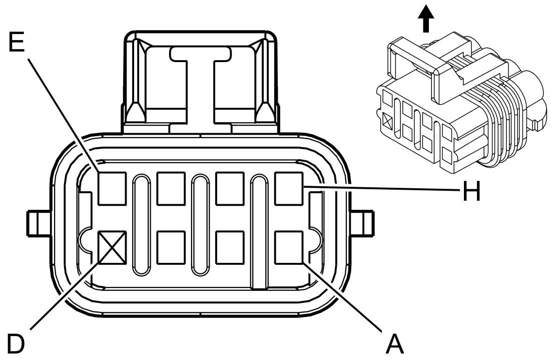
Terminal Part Information

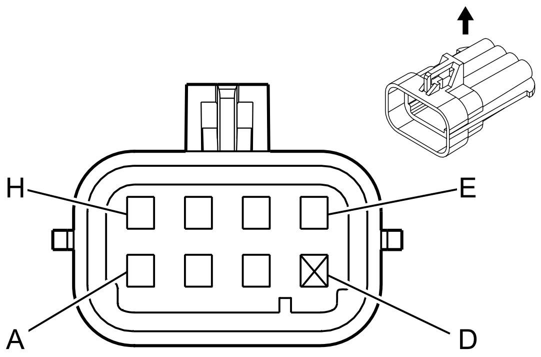
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	Pins: A, H – 2	1
II	Service by Connector Assembly - 12047933	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X126 Engine Harness to Left Ignition Coil Harness (LC8, LMF, LU3, L20 or L96)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	1	BK	1250	I	-	Ground	A	1	BK	350	II	-
B	0.8	OG	2127	I	-	Ignition Coil 7 Control	B	0.8	RD	2127	II	-
C	0.8	D-GN	2125	I	-	Ignition Coil 5 Control	C	0.8	D-GN	2125	II	-
D	-	-	-	-	-	Not Occupied	D	-	-	-	-	-
E	0.8	BN	2129	I	-	Low Reference	E	0.8	BN	2129	II	-
F	0.8	L-BU	2123	I	-	Ignition Coil 3 Control	F	0.8	L-BU	2123	II	-
G	0.8	PU	2121	I	-	Ignition Coil 1 Control	G	0.8	PU	2121	II	-
H	1	PK	1039	I	-	Ignition Voltage	H	1	PK	1039	II	-

X127 Engine Harness to Right Ignition Coil Harness (LC8, LMF, L20 or L96)





Connector Part Information

Harness Type: Engine

OEM Connector: 12047938

Service Connector: 13580883

Description: 8-Way F Metri-Pack 150 Series, Sealed (L-GY)

Connector Part Information

Harness Type: Right Ignition Coil

OEM Connector: 12047933

Service Connector: 12102490

Description: 8-Way M Metri-Pack 150 Series (GY)

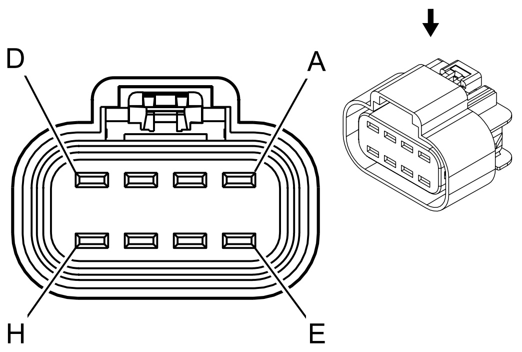
Terminal Part Information

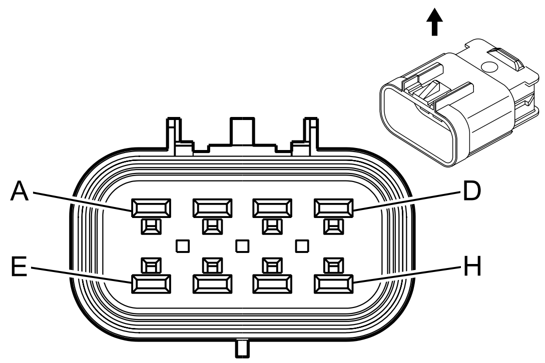
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	Pins: A, H – 2	1
II	Service by Connector Assembly - 12047933	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X127 Engine Harness to Right Ignition Coil Harness (LC8, LMF, L20 or L96)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	1	BK	1250	I	-	Ground	A	1	BK	350	II	-
B	0.8	OG/WH	2122	I	-	Ignition Coil 2 Control	B	0.8	RD	2122	II	-
C	0.8	D-GN/WH	2124	I	-	Ignition Coil 4 Control	C	0.8	D-GN	2124	II	-
D	-	-	-	-	-	Not Occupied	D	-	-	-	-	-
E	0.8	BN/WH	2130	I	-	Low Reference	E	0.8	BN	2130	II	-
F	0.8	L-BU/WH	2126	I	-	Ignition Coil 6 Control	F	0.8	L-BU	2126	II	-
G	0.8	PU/WH	2128	I	-	Ignition Coil 8 Control	G	0.8	PU	2128	II	-
H	1	PK	1239	I	-	Ignition Voltage	H	1	PK	1239	II	-

X128 Engine Harness to Heated Oxygen Sensor Jumper Harness (Cutaway with LC8, L20 or L96)





Connector Part Information

Harness Type: Engine

OEM Connector: 15326654

Service Connector: 88986254

Description: 8-Way F GT 280 5.8 Series, Sealed (BK)

Connector Part Information

Harness Type: Heated Oxygen Sensor Jumper

OEM Connector: 15326655

Service Connector: 15306424

Description: 8-Way M GT 280 5.8 Series, Sealed (BK)

Terminal Part Information

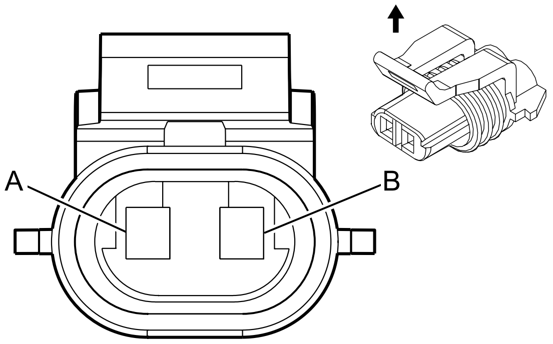
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575405	J-35616-4A (PU)	J-38125-553	15304719	19	2	5
II	Pending	J-35616-5 (PU)	J-38125-553	15304731	19	C	5

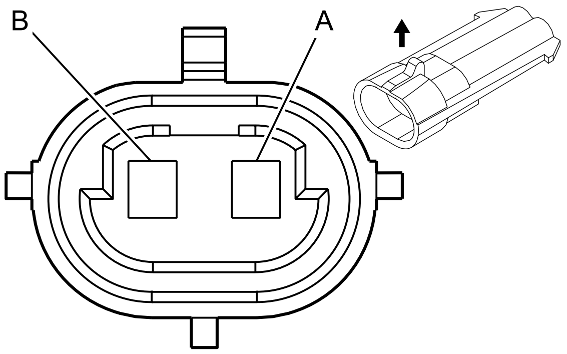
X128 Engine Harness to Heated Oxygen Sensor Jumper Harness (Cutaway with LC8, L20 or L96)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PU/WH	1668	I	-	Heated Oxygen Sensor (HO2S) High Signal– Bank 1 Sensor 2	A	0.8	PU/WH	1668	II	-
B	0.8	PK	1539	I	-	Ignition Voltage	B	0.8	PK	1539	II	-
C	0.8	TN/WH	1669	I	-	Heated Oxygen Sensor (HO2S) Low Signal– Bank 1 Sensor 2	C	0.8	TN/WH	1669	II	-
D	0.8	TN	1671	I	-	Heated Oxygen Sensor (HO2S) Heater Low Control– Bank 2 Sensor 2	D	0.8	TN	1671	II	-
E	0.8	PU	1670	I	-	Heated Oxygen Sensor (HO2S) High Signal– Bank 2 Sensor 2	E	0.8	PU	1670	II	-
F	0.8	PK	1539	I	-	Ignition Voltage	F	0.8	PK	1539	II	-
G	0.8	GY/WH	3122	I	-	Heated Oxygen Sensor (HO2S) Heater Low Control– Bank 2 Sensor 1	G	0.8	GY/WH	3122	II	-
H	0.8	OG/WH	3223	I	-	Heated Oxygen Sensor	H	0.8	OG/WH	3223	II	-

H	0.8	OG/WH	3223	I	-	Heated Oxygen Sensor (HO2S) Heater Low Control– Bank 2 Sensor 2	H	0.8	OG/WH	3223	II	-

X141 Instrument Panel Harness to Brake Fluid Level Jumper Harness (UJ1)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12052644

Service Connector: 53306302

Description: 2-Way F Metri-Pack 150 Series, Sealed (GY)

Connector Part Information

Harness Type: Brake Fluid Level Jumper

OEM Connector: 12162343

Service Connector: 15302767

Description: 2-Way M Metri-Pack 150 (GY)

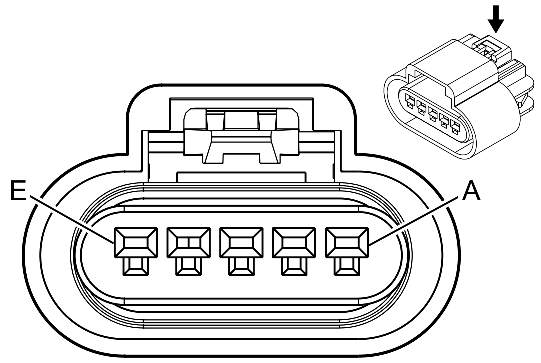
Terminal Part Information

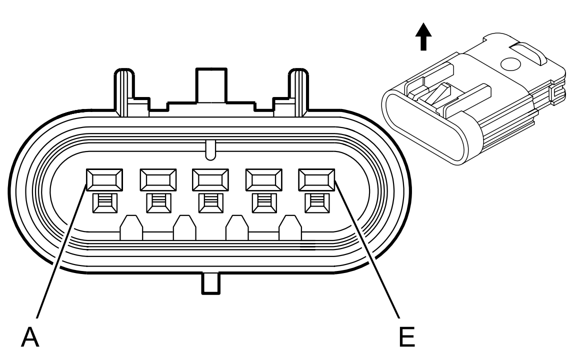
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575419	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1
II	Pending	Pending	Not Available	Service by Connector Assembly–12162343	Service by Connector Assembly–12162343	Not Available	Not Available

X141 Instrument Panel Harness to Brake Fluid Level Jumper Harness (UJ1)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	TN/WH	33	I	-	Brake Warning Indicator Control	A	0.5	TN/WH	33	II	-
B	0.5	BK/WH	351	I	-	Ground	B	0.5	BK	350	II	-

X142 Engine Chassis Harness to Fan Jumper Harness (LGH)





Connector Part Information

Harness Type: Engine Chassis

OEM Connector: 13519051

Service Connector: 13585858

Description: 5-Way F GT 150 Series Sealed (BK)

Connector Part Information

Harness Type: Fan Jumper

OEM Connector: 13519053

Service Connector: 13504593

Description: 5-Way M GT 150 Series, Sealed (BK)

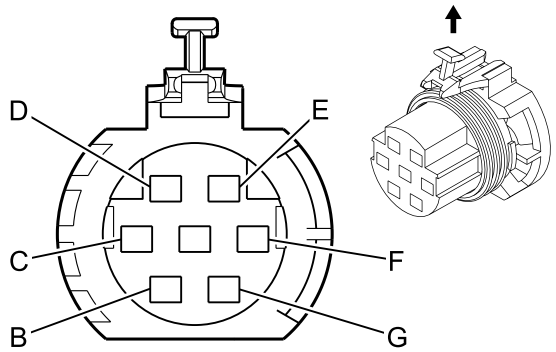
Terminal Part Information

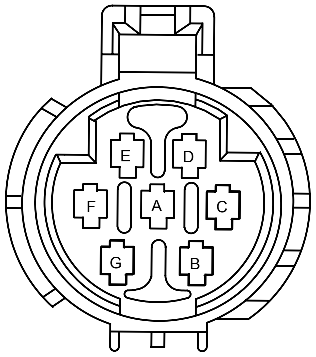
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness– See Part Catalog	J-35616-2A (GY)	J-38125-553	12191819	8	E	1
II	Service by Harness– See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X142 Engine Chassis Harness to Fan Jumper Harness (LGH)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	WH/BK	2366	I	-	Cooling Fan Clutch Control	A	0.5	GN	2366	II	-
B	0.5	PK	939	I	-	Powertrain Relay Control	B	0.5	RD	939	II	-
C	0.5	BN/WH	6141	I	-	Low Reference	C	0.5	BK	6141	II	-
D	0.5	D-BU	2364	I	-	Cooling Fan Speed Signal	D	0.5	WH	2364	II	-
E	0.5	GY	2365	I	-	Low Reference	E	0.5	OG	2365	II	-

X150 Instrument Panel Harness to Forward Lamp Harness (UFA)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12110751

Service Connector: 12110751

Description: 7-Way F Metri-Pack 280 Series, Flexlock, Sealed (BK)

Connector Part Information

Harness Type: Forward Lamp

OEM Connector: 12110753

Service Connector: 12110753

Description: 7-Way M Metri-Pack 280 Series, Sealed Self Lock (BK)

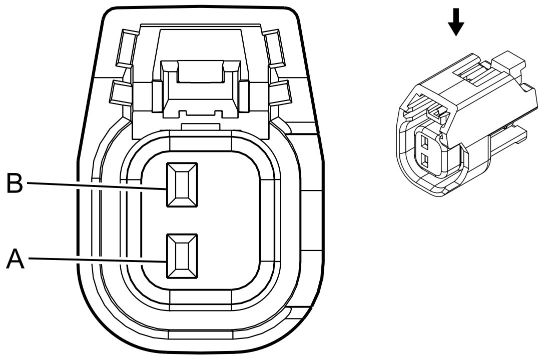
Terminal Part Information

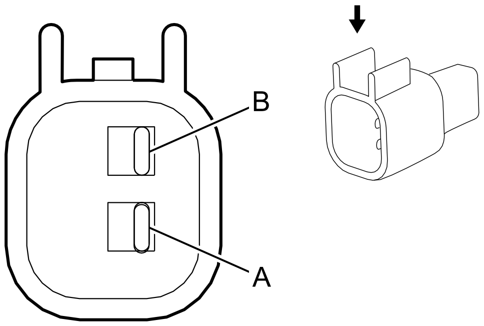
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	J-35616-4A (PU)	J-38125-553	12110847	4	E	5
II	13581347	J-35616-5 (PU)	J-38125-11A	12048159	2	2	5

X150 Instrument Panel Harness to Forward Lamp Harness (UFA)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	PK/BK	109	I	BTV	Hood Ajar Switch Signal	A	0.5	PK/BK	109	II	BTV
B	0.5	PU	5531	I	BTV	Hood Closed Switch Signal	B	0.5	PU	5531	II	BTV
C	0.5	GN/WH	636	I	-	Outside Ambient Air Temperature Sensor Signal	C	0.5	GN/WH	636	II	-
D	0.5	YE	61	I	-	Outside Ambient Temperature Sensor Low Reference	D	0.5	YE	61	II	-
E	0.8	L-GN	2032	I	-	Radiator Coolant Temperature Sensor Signal	E	0.8	L-GN	2032	II	-
F	0.8	L-BU/BK	6813	I	-	Radiator Coolant Temperature Sensor Low Reference	F	0.8	L-BU/BK	6813	II	-
G	-	-	-	-	-	Not Occupied	G	-	-	-	-	-

X161 Engine Harness to Fuel Injector 1 Harness (KO7 and UFM)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: EV6

Service Connector: Service by Harness — See Part Catalog

Description: 2-Way M GT 150 Series (BK)

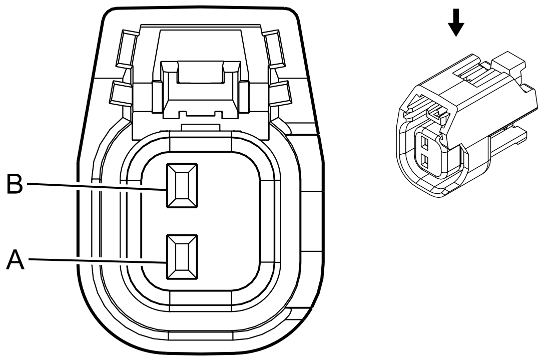
Terminal Part Information

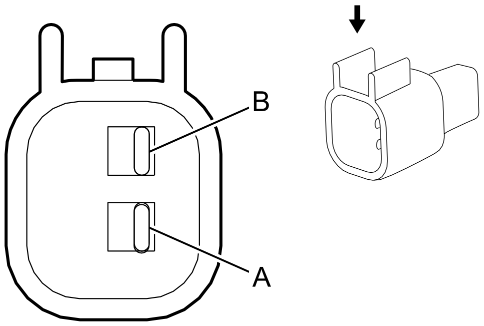
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A — 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A — 2	1
II	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X161 Engine Harness to Fuel Injector 1 Harness (KO7 and UFM)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PK	1239	I	-	Ignition Voltage	A	RD	RD	—	II	-
B	0.5	TN	1745	I	-	Fuel Injector 1 Control	B	BK	BK	—	II	-

X161 Engine Harness to Fuel Injector 1 Harness (LC8 with FHZ)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

Connector Part Information

Harness Type:Fuel Injector 1

OEM Connector: EV6

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way M GT 150 Series (BK)

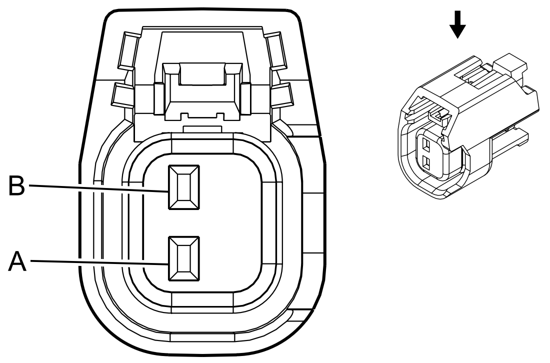
Terminal Part Information

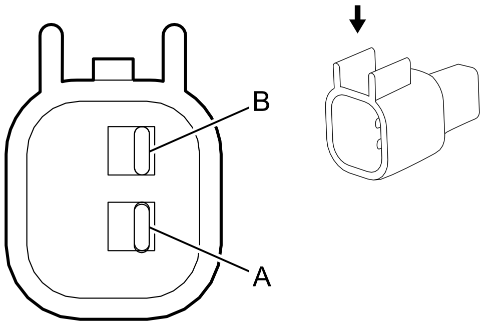
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A - 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A - 2	1
II	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X161 Engine Harness to Fuel Injector 1 Harness (LC8 with FHZ)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PK	1039	I	-	Ignition Voltage	A	RD	RD	—	II	-
B	0.5	TN	1744	I	-	Fuel Injector 1 Control	B	GY	GY	—	II	-

X162 Engine Harness to Fuel Injector 2 Harness (KO7 and UFM)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: EV6

Service Connector: Service by Harness — See Part Catalog

Description: 2-Way M GT 150 Series (BK)

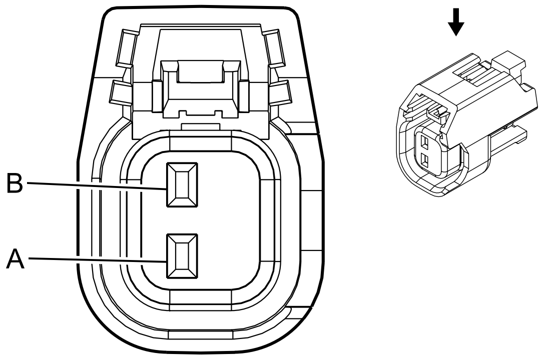
Terminal Part Information

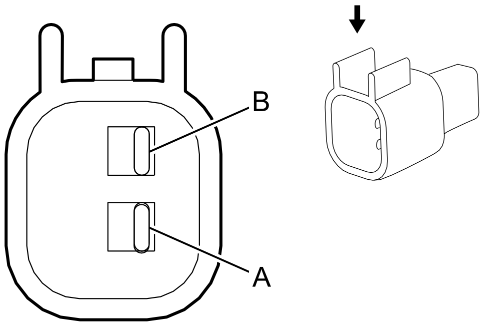
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A — 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A — 2	1
II	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X162 Engine Harness to Fuel Injector 2 Harness (KO7 and UFM)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PK	1039	I	-	Ignition Voltage	A	RD	RD	—	II	-
B	0.5	TN	1744	I	-	Fuel Injector 2 Control	B	BK	BK	—	II	-

X162 Engine Harness to Fuel Injector 2 Harness (LC8 with FHZ)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

Connector Part Information

Harness Type:Fuel Injector 2

OEM Connector: EV6

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way M GT 150 Series (BK)

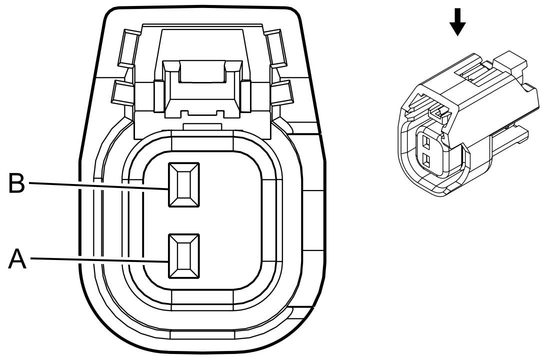
Terminal Part Information

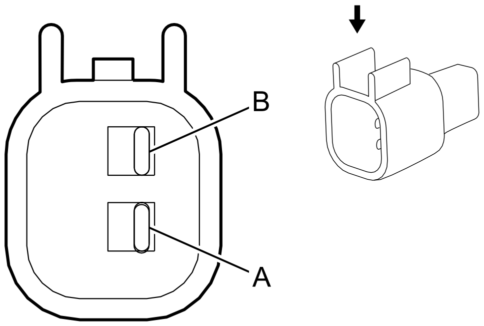
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A - 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A - 2	1
II	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X162 Engine Harness to Fuel Injector 2 Harness (LC8 with FHZ)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PK	1239	I	-	Ignition Voltage	A	RD	RD	—	II	-
B	0.5	L-GN/BK	1745	I	-	Fuel Injector 2 Control	B	GY	GY	—	II	-

X163 Engine Harness to Fuel Injector 3 Harness (KO7 and UFM)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: EV6

Service Connector: Service by Harness — See Part Catalog

Description: 2-Way M GT 150 Series (BK)

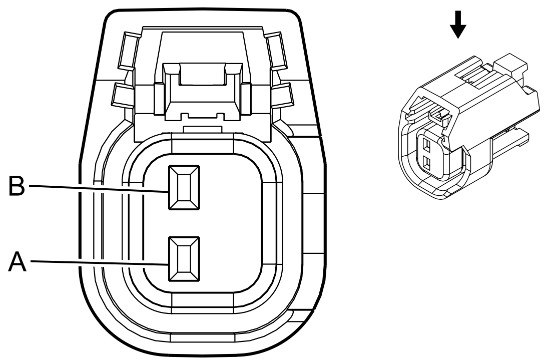
Terminal Part Information

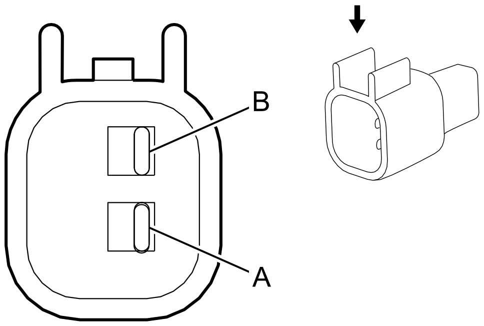
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A — 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A — 2	1
II	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X163 Engine Harness to Fuel Injector 3 Harness (KO7 and UFM)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PK	1039	I	-	Ignition Voltage	A	RD	RD	—	II	-
B	0.5	PK/BK	1746	I	-	Fuel Injector 3 Control	B	BK	BK	—	II	-

X163 Engine Harness to Fuel Injector 3 Harness (LC8 with FHZ)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

Connector Part Information

Harness Type:Fuel Injector 3

OEM Connector: EV6

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way M GT 150 Series (BK)

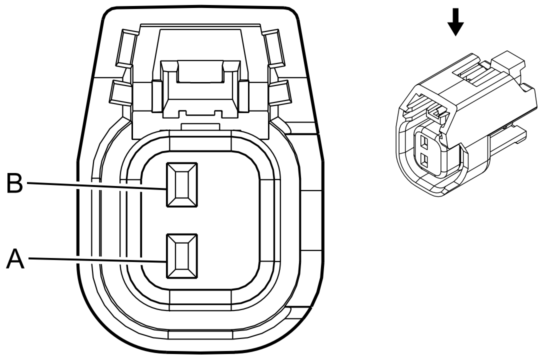
Terminal Part Information

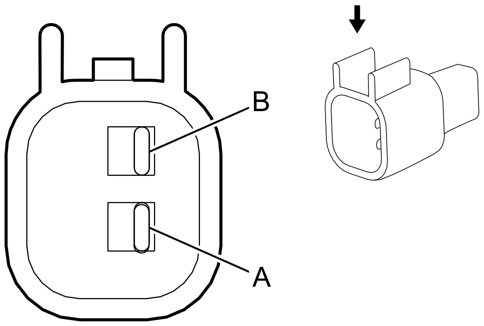
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A - 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A - 2	1
II	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X163 Engine Harness to Fuel Injector 3 Harness (LC8 with FHZ)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PK	1039	I	-	Ignition Voltage	A	RD	RD	—	II	-
B	0.5	PK/BK	1746	I	-	Fuel Injector 3 Control	B	GY	GY	—	II	-

X164 Engine Harness to Fuel Injector 4 Harness (KO7 and UFM)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: EV6

Service Connector: Service by Harness — See Part Catalog

Description: 2-Way M GT 150 Series (BK)

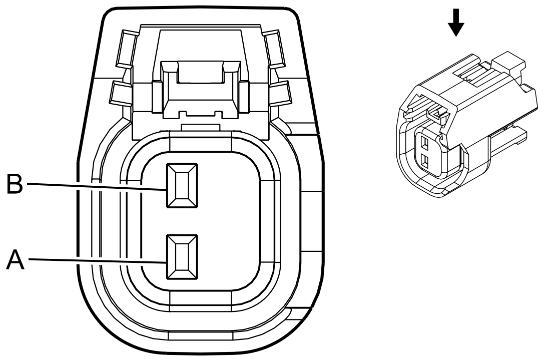
Terminal Part Information

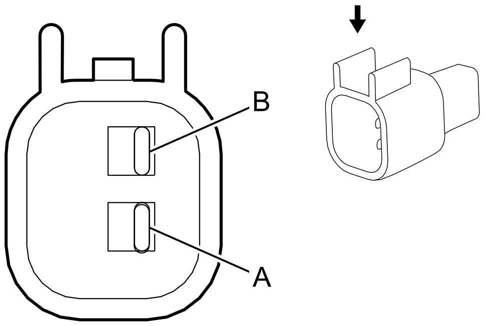
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A — 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A — 2	1
II	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X164 Engine Harness to Fuel Injector 4 Harness (KO7 and UFM)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PK	1239	I	-	Ignition Voltage	A	RD	RD	—	II	-
B	0.5	TN	844	I	-	Fuel Injector 4 Control	B	BK	BK	—	II	-

X164 Engine Harness to Fuel Injector 4 Harness (LC8 with FHZ)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

Connector Part Information

Harness Type:Fuel Injector 4

OEM Connector: EV6

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way M GT 150 Series (BK)

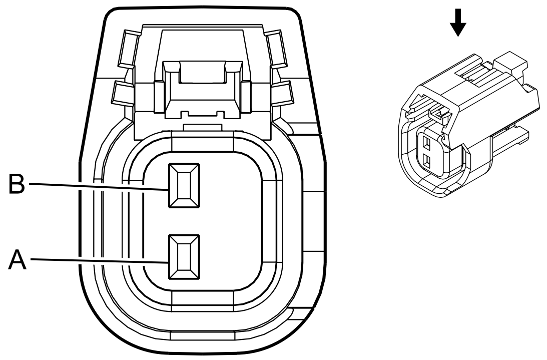
Terminal Part Information

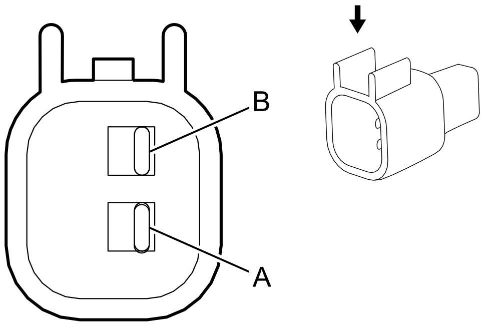
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A - 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A - 2	1
II	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X164 Engine Harness to Fuel Injector 4 Harness (LC8 with FHZ)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PK	1239	I	-	Ignition Voltage	A	RD	RD	—	II	-
B	0.5	L-BU/BK	844	I	-	Fuel Injector 4 Control	B	GY	GY	—	II	-

X165 Engine Harness to Fuel Injector 5 Harness (KO7 and UFM)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: EV6

Service Connector: Service by Harness — See Part Catalog

Description: 2-Way M GT 150 Series (BK)

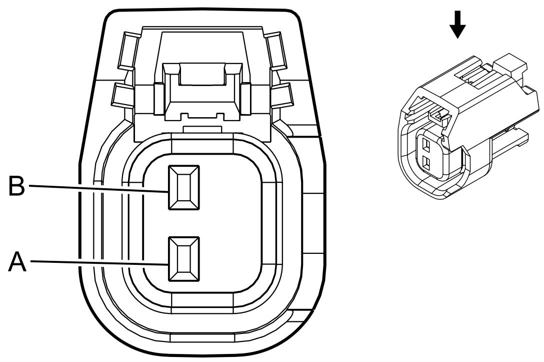
Terminal Part Information

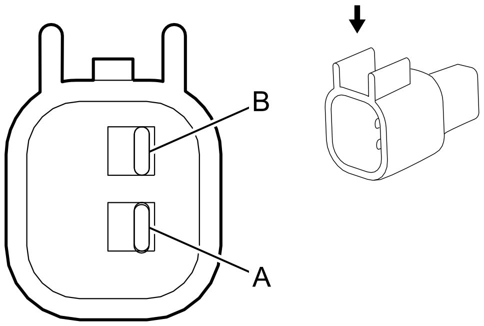
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A — 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A — 2	1
II	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X165 Engine Harness to Fuel Injector 5 Harness (KO7 and UFM)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PK	1039	I	-	Ignition Voltage	A	RD	RD	—	II	-
B	0.5	TN/WH	845	I	-	Fuel Injector 5 Control	B	BK	BK	—	II	-

X165 Engine Harness to Fuel Injector 5 Harness (LC8 with FHZ)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

Connector Part Information

Harness Type:Fuel Injector 5

OEM Connector: EV6

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way M GT 150 Series (BK)

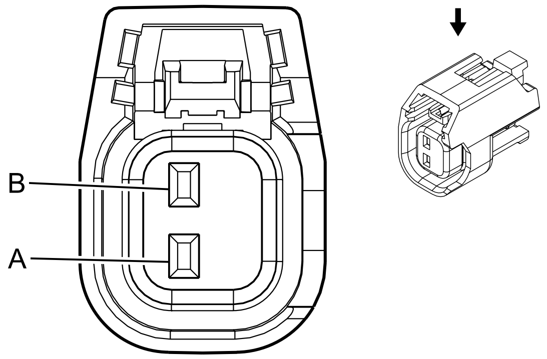
Terminal Part Information

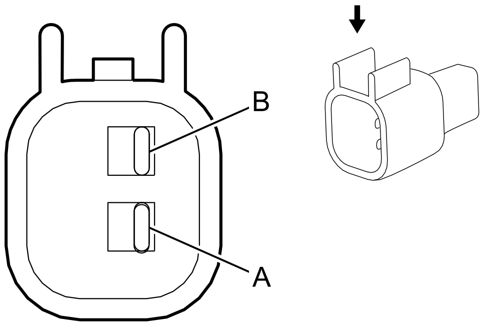
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A - 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A - 2	1
II	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X165 Engine Harness to Fuel Injector 5 Harness (LC8 with FHZ)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PK	1039	I	-	Ignition Voltage	A	RD	RD	—	II	-
B	0.5	TN/WH	845	I	-	Fuel Injector 5 Control	B	GY	GY	—	II	-

X166 Engine Harness to Fuel Injector 6 Harness (KO7 and UFM)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: EV6

Service Connector: Service by Harness — See Part Catalog

Description: 2-Way M GT 150 Series (BK)

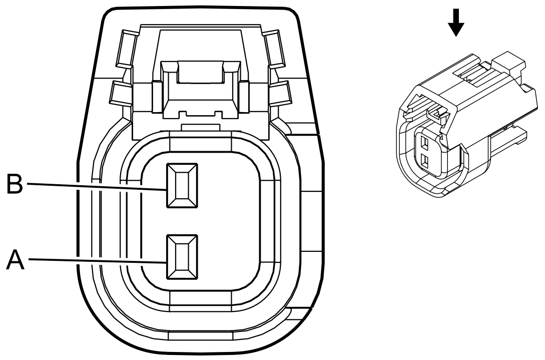
Terminal Part Information

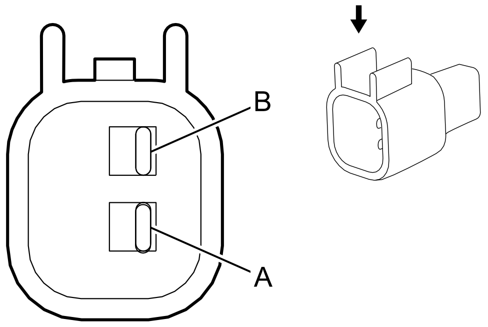
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A — 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A — 2	1
II	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X166 Engine Harness to Fuel Injector 6 Harness (KO7 and UFM)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PK	1239	I	-	Ignition Voltage	A	RD	RD	—	II	-
B	0.5	TN	846	I	-	Fuel Injector 6 Control	B	BK	BK	—	II	-

X166 Engine Harness to Fuel Injector 6 Harness (LC8 with FHZ)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

Connector Part Information

Harness Type:Fuel Injector 6

OEM Connector: EV6

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way M GT 150 Series (BK)

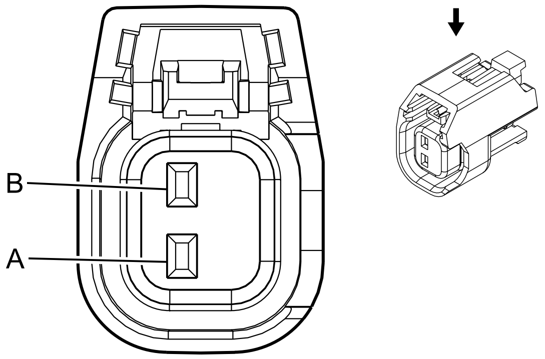
Terminal Part Information

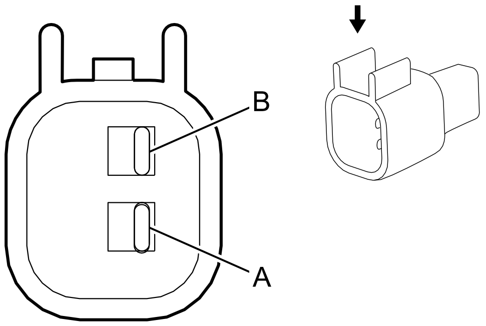
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A - 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A - 2	1
II	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X166 Engine Harness to Fuel Injector 6 Harness (LC8 with FHZ)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PK	1239	I	-	Ignition Voltage	A	RD	RD	—	II	-
B	0.5	YE/BK	846	I	-	Fuel Injector 6 Control	B	GY	GY	—	II	-

X167 Engine Harness to Fuel Injector 7 Harness (KO7 and UFM)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: EV6

Service Connector: Service by Harness — See Part Catalog

Description: 2-Way M GT 150 Series (BK)

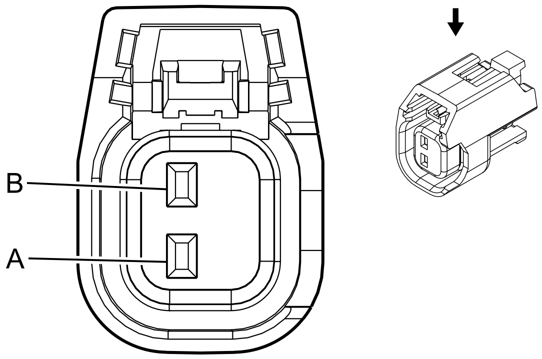
Terminal Part Information

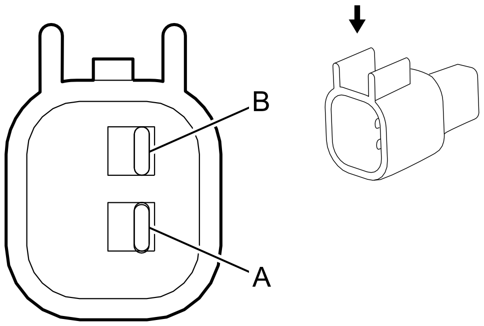
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A — 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A — 2	1
II	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X167 Engine Harness to Fuel Injector 7 Harness (KO7 and UFM)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PK	1039	I	-	Ignition Voltage	A	RD	RD	—	II	-
B	0.5	OG/BK	877	I	-	Fuel Injector 7 Control	B	BK	BK	—	II	-

X167 Engine Harness to Fuel Injector 7 Harness (LC8 with FHZ)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

Connector Part Information

Harness Type:Fuel Injector 7

OEM Connector: EV6

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way M GT 150 Series (BK)

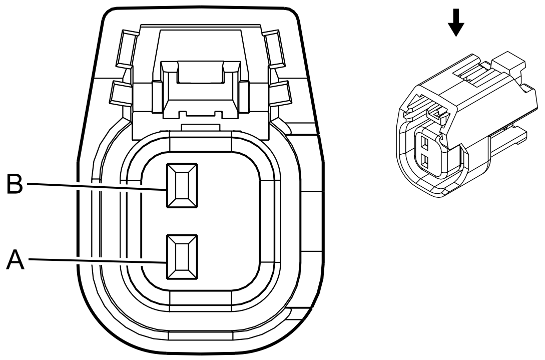
Terminal Part Information

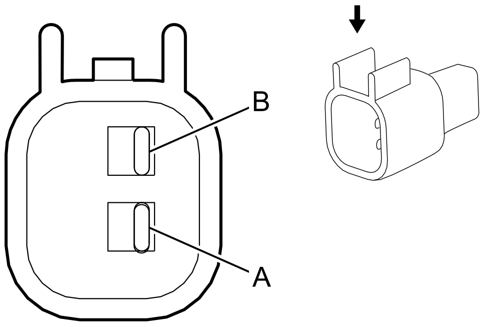
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A - 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A - 2	1
II	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X167 Engine Harness to Fuel Injector 7 Harness (LC8 with FHZ)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PK	1039	I	-	Ignition Voltage	A	RD	RD	—	II	-
B	0.5	OG/BK	877	I	-	Fuel Injector 7 Control	B	GY	GY	—	II	-

X168 Engine Harness to Fuel Injector 8 Harness (KO7 and UFM)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

Connector Part Information

Harness Type: Fuel Injector Jumper

OEM Connector: EV6

Service Connector: Service by Harness — See Part Catalog

Description: 2-Way M GT 150 Series (BK)

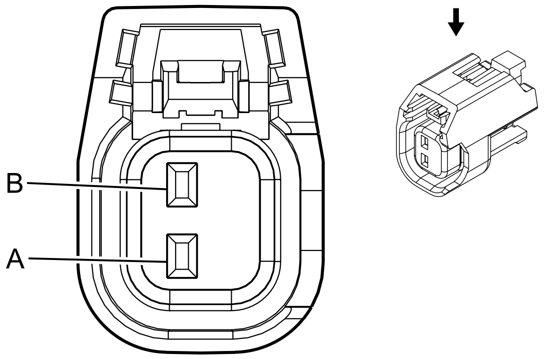
Terminal Part Information

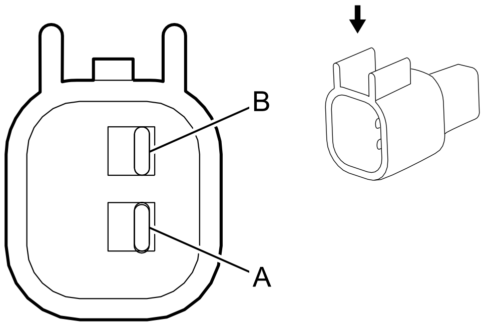
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A — 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A — 2	1
II	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X168 Engine Harness to Fuel Injector 8 Harness (KO7 and UFM)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PK	1239	I	-	Ignition Voltage	A	RD	RD	—	II	-
B	0.5	TN	878	I	-	Fuel Injector 8 Control	B	BK	BK	—	II	-

X168 Engine Harness to Fuel Injector 8 Harness (LC8 with FHZ)





Connector Part Information

Harness Type: Engine

OEM Connector: 15419715

Service Connector: 13580876

Description: 2-Way F GT 150 Series, Sealed (GY)

Connector Part Information

Harness Type:Fuel Injector 8

OEM Connector: EV6

Service Connector: Service by Harness – See Part Catalog

Description: 2-Way M GT 150 Series (BK)

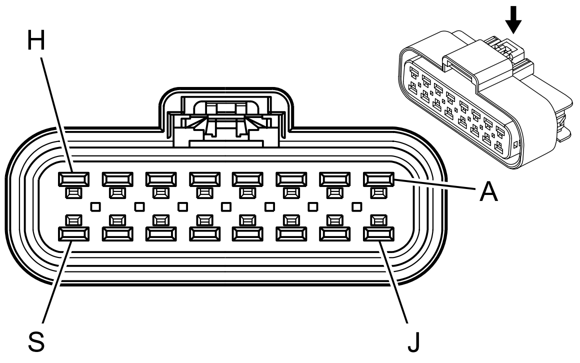
Terminal Part Information

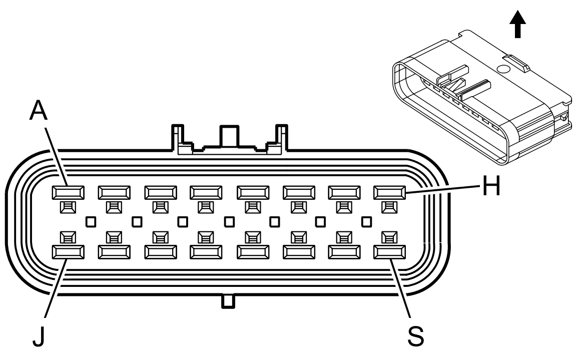
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A - 13327113	J-35616-2A (GY)	J-38125-553	12191819	8	Pin A - 2	1
II	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X168 Engine Harness to Fuel Injector 8 Harness (LC8 with FHZ)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	PK	1239	I	-	Ignition Voltage	A	RD	RD	—	II	-
B	0.5	D-BU/WH	878	I	-	Fuel Injector 8 Control	B	GY	GY	—	II	-

X174 Transmission Harness to Chassis Harness (LGH)





Connector Part Information

Harness Type: Transmission

OEM Connector: 15326666

Service Connector: 15326666

Description: 16-Way F GT 280 5.8 Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis

OEM Connector: 15326667

Service Connector: 88986347

Description: 16-Way M GT 280 5.8 Series, Sealed (BK)

Terminal Part Information

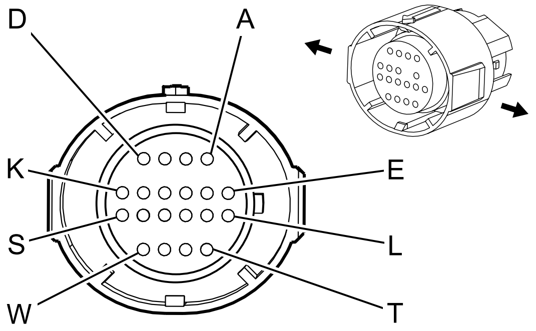
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15304719	19	E	5
II				15304719	19	2	5
III				15304720	19	4	5
IV				15491972	24	E	5
V				15304731	19	E	5
VI				15304731	19	C	5
VII				15304732	8	A	5
VIII				Pending	Pending	Pending	Pending

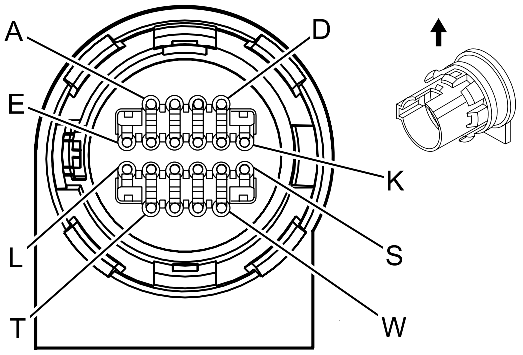
X174 Transmission Harness to Chassis Harness (LGH)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	OG/BK	1786	I	-	Transmission Park/Neutral Signal	A	0.5	OG/BK	1786	V	-
B	0.8	PK	2239	-	-	Ignition Voltage	B	0.8	PK	2239	-	-
C	0.8	GY	120	-	-	Fuel Pump Control	C	0.8	GY	120	-	-
D	0.35	RD/WH	1840	-	-	Battery Positive Voltage	D	0.35	RD/WH	1840	-	-
E	0.5	OG/BK	6399	-	-	Replicated TOS Signal	E	0.5	OG/BK	6399	-	-
F	0.5	BN/WH	6783	IV	-	Low Reference	F	0.8	BN/WH	6783	VIII	-

G	2	BK	150	III	-	Ground	G	2	BK	150	VII	-
H	0.5	TN	2501	-	-	High Speed GMLAN Serial Data (-)	H	0.5	TN	2501	-	-
J	0.8	BK/WH	1551	II	-	Ground	J	0.8	BK/WH	1551	VI	-
K	0.5	D-BU	6863	-	-	Low Reference	K	0.5	D-BU	6863	-	-
L	0.5	D-BU/YE	6861	-	-	Water In Fuel Sensor Signal	L	0.5	L-BU/YE	6861	-	-
M	0.5	PK	2139	-	-	Ignition Voltage	M	0.5	PK	2139	-	-
N	0.5	L-BU/WH	6311	-	-	Cruise/ETC/TCC Brake Signal	N	0.5	L-BU/WH	6311	-	-
P	0.5	L-BU	5377	IV	-	Exhaust Gas Temperature Sensor 2 Signal	P	0.8	L-BU	5377	VIII	-
R	0.5	D-BU	5985	-	-	Accessory Wakeup Serial Data	R	0.5	D-BU	5985	-	-
S	0.5	TN/BK	2500	-	-	High Speed GMLAN Serial Data (+)	S	0.5	TN/BK	2500	-	-

X175 Engine Harness to Transmission Harness (M30)





Connector Part Information

Harness Type: Engine

OEM Connector: 13603424

Service Connector: 13503285

Description: 20-Way F Micro-Pack 100W Series, Sealed (BK)

Connector Part Information

Harness Type: Transmission

OEM Connector: 15443076

Service Connector: Service by Harness – See Part Catalog

Description: 20-Way M Micro-Pack 100W Series, Sealed (BK)

Terminal Part Information

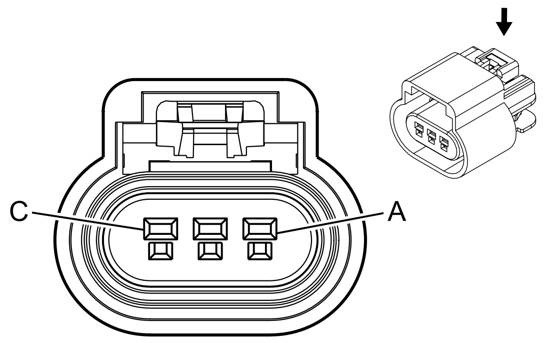
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness - See Part Catalog	J-35616-6 (BN)	J-38125-33	Pins: A–D, F–M, T–W – 12084913	5	W	W
II	Service by Harness - See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

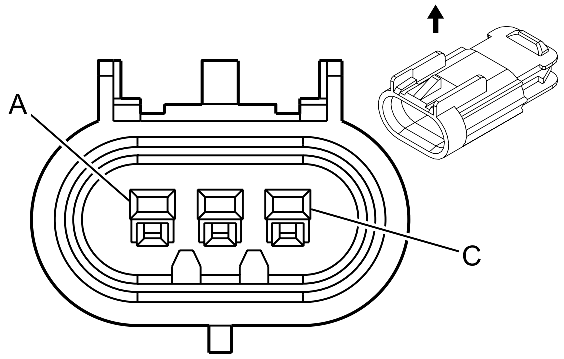
X175 Engine Harness to Transmission Harness (M30)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	L-GN	1222	I	-	1-2 Shift Solenoid Valve Control	A	0.5	L-GN	1222	II	-
B	0.5	YE/BK	1223	I	-	2-3 Shift Solenoid Valve Control	B	0.5	YE	1223	II	-
C	0.35	OG/BK	1228	I	-	PC Solenoid Valve High Control	C	0.5	PU	1228	II	-
D	0.35	L-BU/WH	1229	I	-	PC Solenoid Valve Low Control	D	0.5	L-BU	1229	II	-
E	0.8	PK	3039	I	-	Ignition Voltage	E	0.5	RD	839	II	-
F	0.35	TN/WH	771	I	-	Transmission Range Switch Signal A	F	0.35	TN/WH	771	II	-
G	0.35	YE	772	I	-	Transmission Range Switch Signal B	G	0.35	YE	772	II	-
H	0.35	GY	773	I	-	Transmission Range Switch Signal C	H	0.35	GY	773	II	-

J	0.35	WH	776	I	-	Transmission Range Switch Signal P	J	0.35	WH	776	II	-
K	0.35	OG/BK	1230	I	-	Input Speed Sensor (ISS) High Signal	K	0.35	OG/BK	1230	II	-
L	0.35	YE/BK	1227	I	-	Transmission Fluid Temperature (TFT) Sensor Signal	L	0.5	BN	1227	II	-
M	0.35	TN	452	I	-	Low Reference	M	0.5	GY	452	II	-
N	0.8	BK/WH	1551	I	-	Ground	N	0.8	BK/WH	1551	II	-
P–S	-	-	-	-	-	Not Occupied	P–S	-	-	-	-	-
T	0.5	TN/BK	422	I	-	Torque Converter Clutch (TCC) Solenoid Valve Control	T	0.5	BK	422	II	-
U	0.5	BN	418	I	-	Torque Converter Clutch Pulse Width Modulation (TCC PWM) Solenoid Valve Control	U	0.5	TN	418	II	-
V	0.35	D-BU/WH	1231	I	-	Input Speed Sensor (ISS) Low Signal	V	0.35	D-BU/WH	1231	II	-
W	0.35	OG/BK	1786	I	-	P/N Position Switch Signal	W	0.35	OG/BK	1786	II	-

X176 Engine Harness to Camshaft Position Sensor Jumper Harness (LU3)





Connector Part Information

Harness Type: Engine

OEM Connector: 13519047

Service Connector: 13580871

Description: 3-Way F GT 150 Series, Sealed (BK)

Connector Part Information

Harness Type: Camshaft Position Sensor Jumper

OEM Connector: 15326813

Service Connector: 13580881

Description: 3-Way M 150 Series, Sealed (BK)

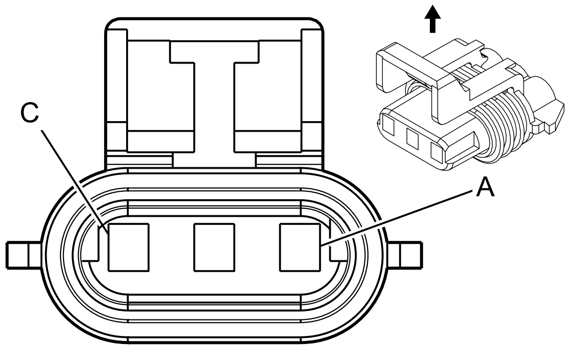
Terminal Part Information

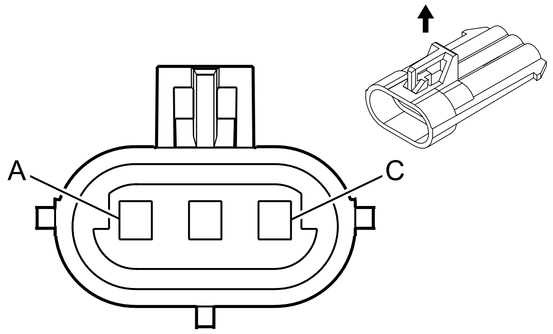
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327113	J-35616-2A (GY)	J-38125-553	12191819	8	2	1
II	13576363	J-35616-3 (GY)	J-38125-553	15326269	19	E	4

X176 Engine Harness to Camshaft Position Sensor Jumper Harness (LU3)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	D-BU	6259	I	-	5-Volt Reference	A	0.35	RD	631	II	-
B	0.8	BN	6266	I	-	Low Reference	B	0.35	PK/BK	632	II	-
C	0.8	D-BU/WH	6265	I	-	Camshaft Position (CMP) Sensor Signal	C	0.35	BN/WH	633	II	-

X177 Engine Harness to Camshaft Position Sensor Jumper Harness (L20 or LMF)





Connector Part Information

Harness Type: Engine

OEM Connector: 12110293

Service Connector: 12117025

Description: 3-Way F Metri-Pack 150 Series, Sealed (BK)

Connector Part Information

Harness Type: Camshaft Position Sensor Jumper

OEM Connector: 12129615

Service Connector: 15305889

Description: 3-Way M Metri-Pack 150 (BK)

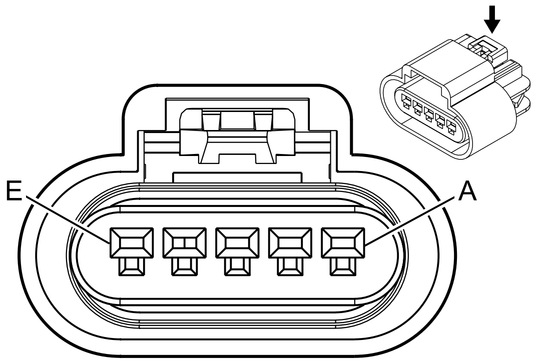
Terminal Part Information

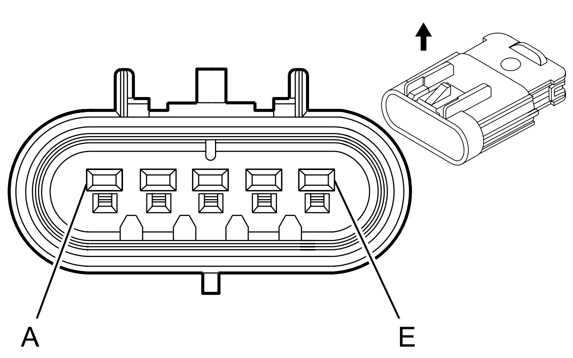
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	E	1
II	Service by Connector Assembly - 15305889	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X177 Engine Harness to Camshaft Position Sensor Jumper Harness (L20 or LMF)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.35	D-BU	6259	I	-	5-Volt Reference	A	0.35	D-BU	6259	II	-
B	0.35	BN	6266	I	-	Low Reference	B	0.35	BN	6266	II	-
C	0.35	D-BU/WH	6265	I	-	Camshaft Position (CMP) Sensor Signal	C	0.35	D-BU/WH	6265	II	-

X177 Engine Harness to Camshaft Position Sensor Jumper Harness (LC8 or L96)





Connector Part Information

Harness Type: Engine

OEM Connector: 13519051

Service Connector: 13585858

Description: 5-Way F GT 150 Series, Sealed (BK)

Connector Part Information

Harness Type: Camshaft Position Sensor Jumper

OEM Connector: 15326827

Service Connector: 13504593

Description: 5-Way M GT 150 Series, Sealed (BK)

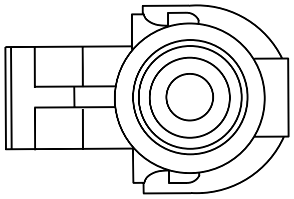
Terminal Part Information

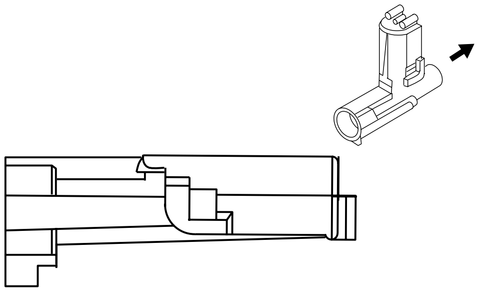
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13327113	J-35616-2A (GY)	J-38125-553	12191819	8	2	1
II	Service by Connector Assembly–13504593	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X177 Engine Harness to Camshaft Position Sensor Jumper Harness (LC8 or L96)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	D-BU	6259	I	-	5-Volt Reference	A	0.35	D-BU	6259	II	-
B	0.8	BN	6266	I	-	Low Reference	B	0.35	BN	6266	II	-
C	0.8	D-BU/WH	6265	I	-	Camshaft Position (CMP) Sensor Signal	C	0.35	D-BU/WH	6265	II	-
D	0.8	PU	5284	I	-	Camshaft Phaser Intake Solenoid (1)	D	0.8	PU	5284	II	-
E	0.8	TN	2199	I	-	Low Reference	E	0.8	TN	2199	II	-

X180 LPG Tank Harness to LPG Main Harness (KO7 with UFM)





Connector Part Information

Harness Type: LPG Tank

OEM Connector: 12015791

Service Connector: 12117385

Description: 1-Way F Weather Pack Series (BK)

Connector Part Information

Harness Type: LPG Main

OEM Connector: 12010996

Service Connector: 12126451

Description: 1-Way M Weather Pack Series (BK)

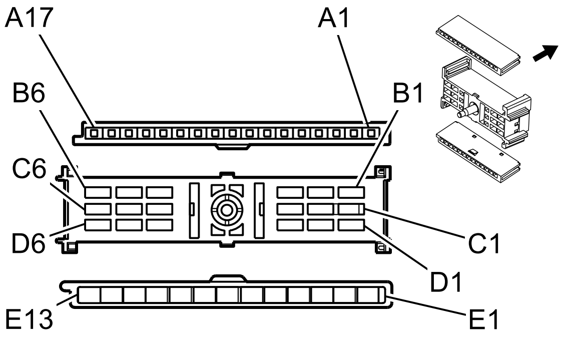
Terminal Part Information

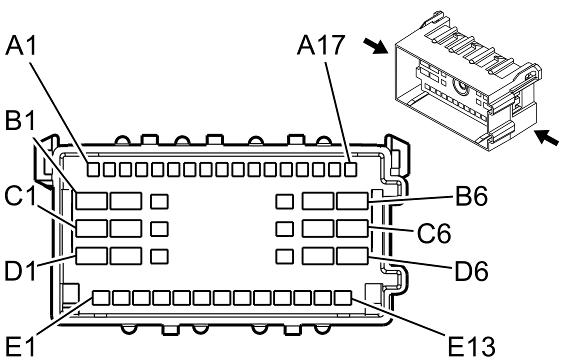
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	Service by Harness – See Part Catalog	J-35616-9 (OG)	J-38125-10A	12089040	3	E	5

X180 LPG Tank Harness to LPG Main Harness (KO7 with UFM)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.35	RD	—	I	-	Fuel Pump Control	A	0.35	RD	—	II	-

X200 Steering Column Harness to Instrument Panel Harness





Connector Part Information

Harness Type: Steering Column

OEM Connector: 12047842

Service Connector: 12047842

Description: 17-Way F Metri-Pack 280 Series (BK)

OEM Connector: 15492581

Service Connector: Service by Harness - See Part Catalog

Description: 18-Way F Metri-Pack 280 630 Series Unsealed (BK)

OEM Connector: 12047840

Service Connector: 12047840

Description: 13-Way F Metri-Pack 280 Series (BK)

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15492579

Service Connector: Service by Harness - See Part Catalog

Description: 48-Way M Metri-Pack 150 280 630 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	5	E	C
II	Pending	J-35616-42 (RD)	J-38125-11A	12015869	3	E	A
III	Pending	J-35616-4A (PU)	J-38125-11A	12034046	2	E	A
IV	13575462	J-35616-3 (GY)	J-38125-12A	12047581	2	E	C
V	13575463	J-35616-3 (GY)	J-38125-12A	12047581	2	E	C
VI	Service by Harness – See Part Catalog	J-35616-43 (RD)	J-38125-11A	12020126	2	E	A

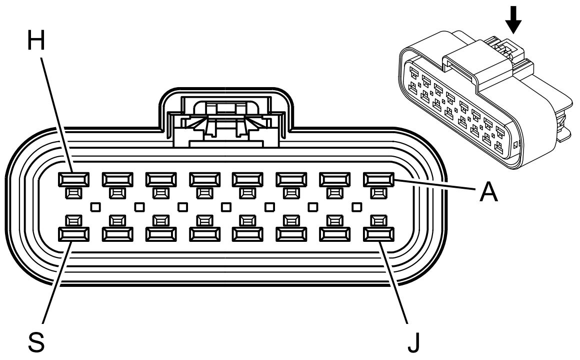
X200 Steering Column Harness to Instrument Panel Harness

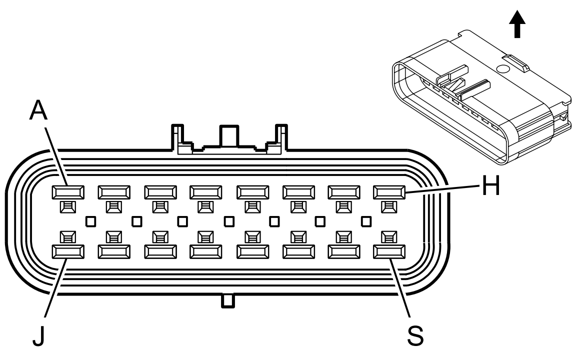
Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A1	0.35	TN	28	I I	-	Horn Relay Control	A1	0.35	TN	28	IV IV	-
A2	-	-	-	-	-	Not Occupied	A2	-	-	-	-	-

A2	-	-	-	-	-	Not Occupied	A2	-	-	-	-	-
A3	0.35	PK	1444	I I	K34	12-Volt Reference	A3	0.35	PK	1444	IV IV	K34
A4–A5	-	-	-	-	-	Not Occupied	A4–A5	-	-	-	-	-
A6	0.35	PK	2239	I I	-	Ignition Voltage	A6	0.35	PK	2239	IV IV	-
A7–A8	-	-	-	-	-	Not Occupied	A7–A8	-	-	-	-	-
A9	0.35	PK	3	I I	-	Ignition Voltage	A9	0.35	PK	3	IV IV	-
A10	-	-	-	-	-	Not Occupied	A10	-	-	-	-	-
A11	0.35	L-GN	6818	I	W1Y	Steering Wheel Control Signal	A11	0.35	L-GN	6818	IV	W1Y
A12	0.35	YE	6046	I	JL4	Steering Angle Sensor Phase A	A12	0.5	YE	6046	IV	JL4
A13	0.35	D-GN/WH	7158	I	K34	Cruise Control Indicator Dimming Signal	A13	0.35	D-GN/WH	7158	IV	K34
A14	0.35	D-BU	6047	I	JL4	Steering Angle Sensor Phase B	A14	0.5	D-BU	6047	IV	JL4
A15	0.35	BN	6136	I	K34/W1Y	Supply Voltage	A15	0.35	BN	6136	IV	K34/W1Y
A16	0.35	TN	6048	I	JL4	Steering Angle Sensor Phase C	A16	0.5	TN	6048	IV	JL4
A17	0.35	GY	1884	I	K34	Cruise Control Switch Signal	A17	0.35	GY	1884	IV	K34
B1	0.35	RD/WH	540	II	-	Battery Positive Voltage	B1	0.35	RD/WH	540	VI	-
B2	-	-	-	-	-	Not Occupied	B2	-	-	-	-	-
B3	0.35	WH	111	III	-	Theft Deterrent Alarm Enable Signal	B3	0.35	WH	111	V	-
B4–B5	-	-	-	-	-	Not Occupied	B4–B5	-	-	-	-	-
B6	0.35	PK	1020	II	-	Ignition Voltage	B6	0.35	PK	1020	VI	-
C1	0.35	WH	530	II	-	Ignition Voltage	C1	0.35	WH	530	VI	-
C2	-	-	-	-	-	Not Occupied	C2	-	-	-	-	-
C3	0.35	YE	307	III	-	Headlamp Switch Flash to Pass Signal	C3	0.35	YE	307	V	-
C4–C5	-	-	-	-	-	Not Occupied	C4–C5	-	-	-	-	-
C6	0.35	BN	4	II	-	Ignition Voltage	C6	0.35	BN	4	VI	-

C6	0.35	BN	4	II	-	Ignition Voltage	C6	0.35	BN	4	VI	-
D1	0.35	TN/BK	6009	II II III	-	Low Reference	D1	0.35	TN/BK	6009	VI	-
D2	-	-	-	-	-	Not Occupied	D2	-	-	-	-	-
D3	0.35	YE	525	II III	-	Headlamp Dimmer Switch Low Beam Signal	D3	0.35	YE	525	V	-
D4	0.5	TN/WH	816	II III	-	A/T Shift Lock Solenoid Control	D4	0.5	TN/WH	816	V	-
D5	0.35	L-GN	6043	II III	JL4	Steering Angle Sensor Signal	D5	0.5	L-GN	6043	VI	JL4
D6	0.35	PK	94	II III	-	Windshield Washer Switch Signal	D6	0.35	PK	94	VI	-
E1	0.5	BK	350	III III III	-	Ground	E1	0.5	BK	350	V V	-
E2	-	-	-	-	-	Not Occupied	E2	-	-	-	-	-
E3	0.5	BK/WH	351	III III	-	Ground	E3	0.5	BK/WH	351	V V	-
E4	0.35	OG/BK	6045	III III	JL4	Low Reference	E4	0.5	OG/BK	6045	V V	JL4
E5–E7	-	-	-	-	-	Not Occupied	E5–E7	-	-	-	-	-
E8	0.35	D-GN	663	III III	-	Hazard Switch Left Turn Signal	E8	0.35	D-GN	663	V V	-
E9	0.35	TN	664	III III	-	Hazard Switch Turn Right Signal	E9	0.35	TN	664	V V	-
E10	0.35	GY	6044	III III	JL4	5-Volt Reference	E10	0.5	GY	6044	V	JL4
E11	0.35	L-BU	1714	III III	-	Windshield Wiper Switch Low Signal	E11	0.35	L-BU	1714	V	-
E12	0.35	L-GN	1715	III III	-	Windshield Wiper Switch High Signal	E12	0.35	L-GN	1715	V	-
E13	0.35	D-GN	5060	III III	-	Low Speed GMLAN Serial Data	E13	0.35	D-GN	5060	V	-

X202 Instrument Panel Harness to Engine Harness (UD7)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15326666

Service Connector: 15326666

Description: 16-Way F GT 280 5.8 Series, Sealed (BK)

Connector Part Information

Harness Type: Engine

OEM Connector: 15326667

Service Connector: 88986347

Description: 16-Way M GT 280 5.8 Series, Sealed (BK)

Terminal Part Information

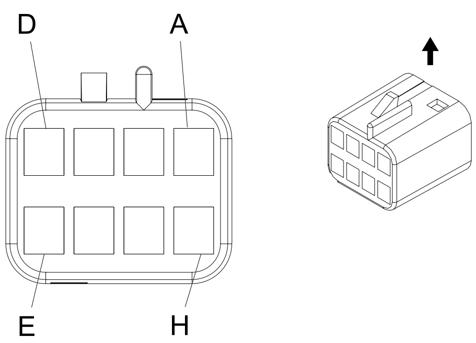
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578906	J-35616-4A (PU)	J-38125-553	15304719	19	E	5
II	13582240	J-35616-5 (PU)	J-38125-553	15304731	19	E	5

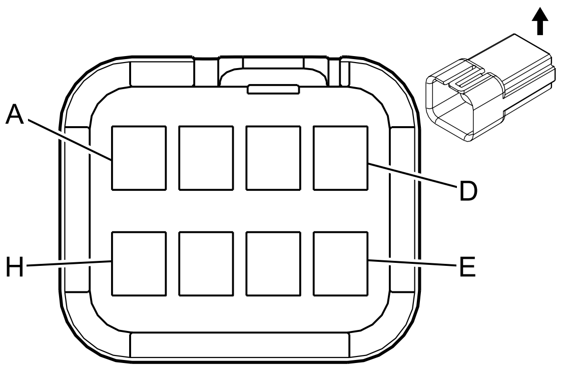
X202 Instrument Panel Harness to Engine Harness (UD7)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	PU	2378	I	-	Right Rear Corner Object Sensor Signal	A	0.5	PU	2378	II	-
B	0.5	D-GN	2377	I	-	Right Rear Middle Object Sensor Signal	B	0.5	D-GN	2377	II	-
C	0.5	RD/WH	840	I	-	Battery Positive Voltage	C	0.5	RD/WH	840	II	-
D	-	-	-	-	-	Not Occupied	D	-	-	-	-	-
E	-	-	-	-	-	Not Occupied	E	-	-	-	-	-
F	0.5	BN	5360	I	-	Brake Apply Sensor Low Reference	F	0.5	BN	5360	II	-
G	0.5	D-BU	2374	I	-	Object Sensor Supply Voltage	G	0.5	D-BU	2374	II	-
H	0.5	YE	2375	I	-	Left Rear Corner Object Sensor Signal	H	0.5	YE	2375	II	-
J	0.5	GY	2379	I	-	Object Sensor Low Reference	J	0.5	GY	2379	II	-
K	-	-	-	-	-	Not Occupied	K					

K	-	-	-	-	-	Not Occupied	K	-	-	-	-	-
L	-	-	-	-	-	Not Occupied	L	-	-	-	-	-
M	-	-	-	-	-	Not Occupied	M	-	-	-	-	-
N	0.35	D-GN/WH	817	I	-	Vehicle Speed Signal	N	0.35	D-GN/WH	817	II	-
P	0.5	YE	5361	I	-	Brake Apply Sensor Signal	P	0.5	YE	5361	II	-
R	0.5	WH	5359	I	-	Brake Apply Sensor Supply Voltage	R	0.5	WH	5365	II	-
S	0.5	OG	2376	I	-	Left Rear Middle Object Sensor Signal	S	0.5	OG	2376	II	-

X204 Body Harness to Headliner Harness (UVC)





Connector Part Information

Harness Type: Body

OEM Connector: 12047886

Service Connector: 13584485

Description: 8-Way F Metri-Pack 150 Series (BK)

Connector Part Information

Harness Type: Headliner

OEM Connector: 12045688

Service Connector: 13584253

Description: 8-Way M Metri-Pack 150 Series (BK)

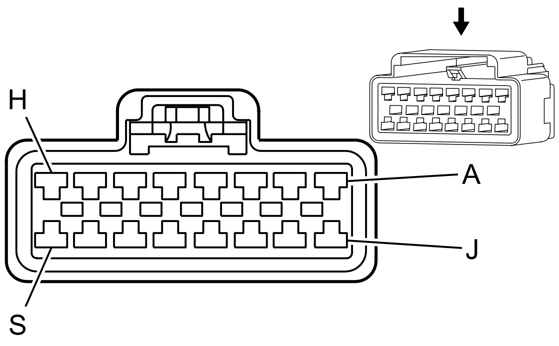
Terminal Part Information

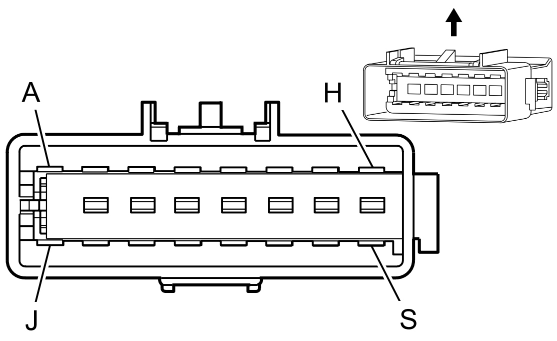
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	2	E	C
II	13575462	J-35616-3 (GY)	J-38125-12A	12047581	2	E	C

X204 Body Harness to Headliner Harness (UVC)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.35	WH	7641	I	-	Camera Rear Vision Signal +	A	0.35	WH	7641	II	-
B	0.35	L-BU	7642	I	-	Camera Rear Vision Signal (-)	B	0.35	L-BU	7642	II	-
C	0.35	BARE	6799	I	-	Camera Shield	C	0.35	BARE	6799	II	-
D	-	-	-	-	-	Not Occupied	D	-	-	-	-	-
E	0.5	PK	239	I	-	Run/Crank Ignition 1 Voltage	E	0.5	PK	239	II	-
F	0.5	L-GN	24	I	-	Backup Lamp Supply Voltage	F	0.5	L-GN	24	II	-
G	0.8	D-GN	654	I	-	Cellular Telephone Microphone Low Reference	G	0.8	D-GN	654	II	-
H	0.8	GY	655	I	-	Cellular Telephone Microphone Signal	H	0.8	GY	655	II	-

X205 Front Headliner Harness to Body Harness





Connector Part Information

Harness Type: Front Headliner

OEM Connector: 15326952

Service Connector: 15306426

Description: 16-Way F GT 280 Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 13573920

Service Connector: Service by Harness - See Part Catalog

Description: 16-Way M GT 280 Series (BK)

Terminal Part Information

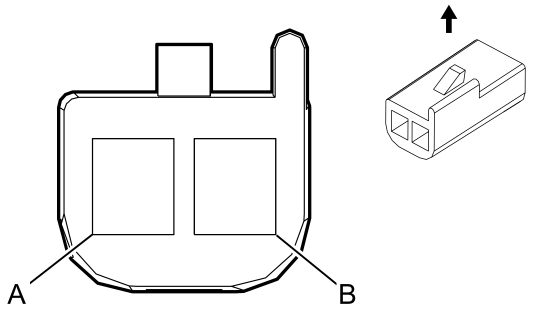
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15304711	8	Pins: B-C, G, S– 2	A
II				15304724	8	2	A
III				15304722	8	E	C

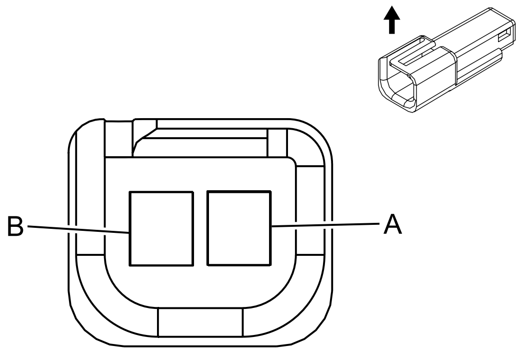
X205 Front Headliner Harness to Body Harness

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.35	BN	441	I	U80	Ignition Voltage	A	0.35	BN	441	III	U80
B	0.8	D-GN	654	I	UE1	Low Reference	B	0.8	D-GN	654	II	UE1
C	0.8	GY	655	I	UE1	Celular Telephone Voice Signal	C	0.8	GY	655	II	UE1
D	0.35	GY	2599	I	C69	Auxiliary Mode Door Control	D	0.35	GY	2599	III	C69
E	0.5	WH	1924	I	C69	Auxiliary Blower Motor High Control	E	0.35	WH	1924	III	C69
F	0.35	BN	341	I	C69	Ignition Voltage	F	0.35	BN	341	III	C69
G	1 0.8	BK BK	1850 1850	I	C69 or DH6 w C69, DH6 or YF1	Ground Ground	G	1	BK	1850	II	-
H	0.5	D-	149	I	-	Courtesy Lamp Control	H	0.5	D-	149	III	-

H	0.5	D-BU/WH	149	I	-	Courtesy Lamp Control	H	0.5	D-BU/WH	149	III	-
J	0.35	BK/WH	351	I	U80	Ground	J	0.35	BK/WH	351	III	U80
K	0.5	BN	5263	I	Passenger with C69	Rear Auxiliary Air Temperature Door Control	K	0.5	BN	5263	III	Passenger with C69
L	0.35	D-GN	6134	I	U80	Local Interconnect Network 3	L	0.35	D-GN	6134	III	U80
M	0.35	OG	2775	I	C69	Auxiliary Air Temperature Door Control	M	0.35	OG	2775	III	C69
N	0.5	OG	1925	I	C69	Auxiliary Blower Motor Medium Control	N	0.35	OG	1925	III	C69
P	0.5	D-BU	1926	I	C69	Auxiliary Blower Motor Low Control	P	0.35	D-BU	1926	III	C69
R	0.35	BN/WH	230	I	C69	Instrument Panel Lamps Dimming Control	R	0.35	BN/WH	230	III	C69
S	0.8 0.5	OG OG	1732 1732	I	w YF7 YF7 or DH6	Courtesy Lamp Control Courtesy Lamp Control	S	0.8	OG	1732	II	-

X206 Body Harness to Front Headliner Harness (C69)





Connector Part Information

Harness Type: Body

OEM Connector: 12047662

Service Connector: 12085535

Description: 2-Way F Metri-Pack 150 Series (BK)

Connector Part Information

Harness Type: Front Headliner

OEM Connector: 12047663

Service Connector: 13584278

Description: 2-Way M Metri-Pack 150 Series (BK)

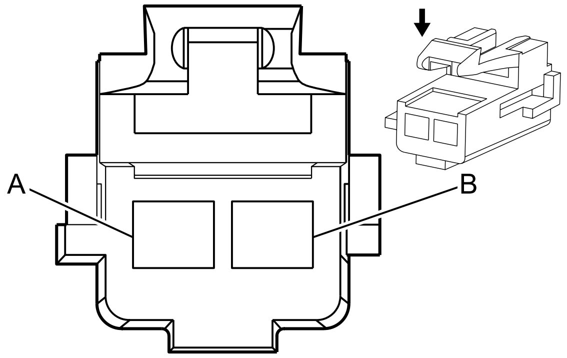
Terminal Part Information

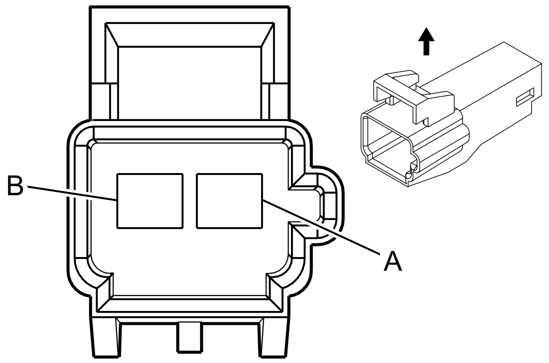
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15326030	5	E	C
II				12047581	2	E	C

X206 Body Harness to Front Headliner Harness (C69)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	PU/WH	5265	I	-	Rear Auxiliary Mode Door Control	A	0.5	PU/WH	5265	II	-
B	0.5	PK/BK	5264	I	-	Rear Auxiliary Blower Motor Switch Control	B	0.5	PK/BK	5264	II	-

X220 Instrument Panel Harness to Park Brake Jumper Harness





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12129082

Service Connector: 15305896

Description: 2-Way F Metri-Pack 280 Series, Flexlock (GY)

Connector Part Information

Harness Type: Park Brake Jumper

OEM Connector: 12129156

Service Connector: 12129156

Description: 2-Way M Metri-Pack 280 Series (GY)

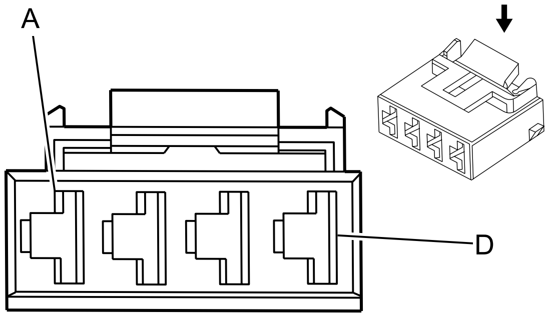
Terminal Part Information

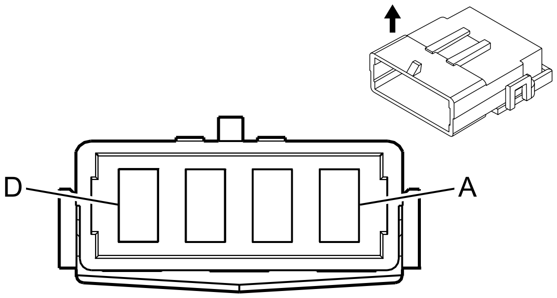
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575721	J-35616-4A (PU)	J-38125-553	12110844	4	E	4
II	Service by Connector Assembly – 12129156	Pending	Not Available	Service by Connector Assembly – 12129156	Service by Connector Assembly – 12129156	Not Available	Not Available

X220 Instrument Panel Harness to Park Brake Jumper Harness

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.35	L-BU	1134	I	-	Park Brake Switch Signal	A	0.5	L-BU	1134	II	-
B	-	-	-	-	-	Not Occupied	B	-	-	-	-	-

X222 Upfitter Provision Harness to Instrument Panel Harness (YF2 or YF7)





Connector Part Information

Harness Type: Upfitter Provision

OEM Connector: 12015664

Service Connector: 12085487

Description: 4-Way F Metri-Pack 630 Series (BK)

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12052623

Service Connector: 15306008

Description: 4-Way M Metri-Pack 630 Series (BK)

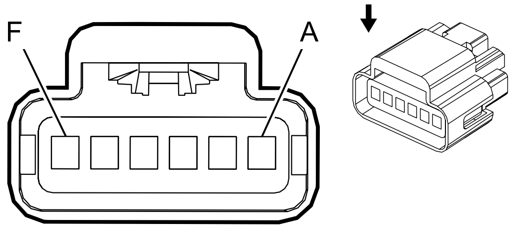
Terminal Part Information

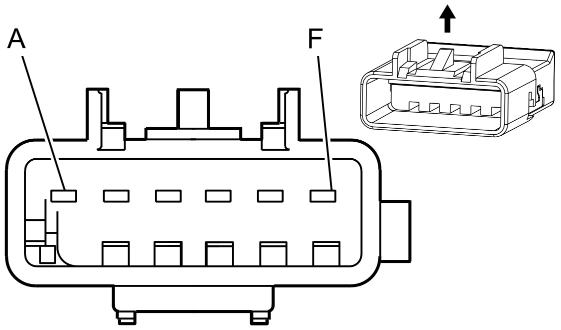
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 12015664	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	Pending	J-35616-43 (RD)	J-38125-11A	12066493	3	B	G

X222 Upfitter Provision Harness to Instrument Panel Harness (YF2 or YF7)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	—	—	1042	I	-	Battery Positive Voltage	A	5	RD/BK	1042	II	-
B	—	—	541	I	-	Ignition Voltage	B	5	BN	541	II	-
C	—	—	350	I	-	Ground	C	5	BK	350	II	-
D	-	-	-	-	-	Not Occupied	D	-	-	-	-	-

X225 Accelerator Pedal Position (APP) Sensor Jumper Harness to Instrument Panel Harness





Connector Part Information

Harness Type: Accelerator Pedal Position (APP) Sensor Jumper

OEM Connector: 13667186

Service Connector: 13577620

Description: 6-Way F GT FBT 150 Series (BK)

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15332142

Service Connector: 89046638

Description: 6-Way M GT 150 Series, Sealed (BK)

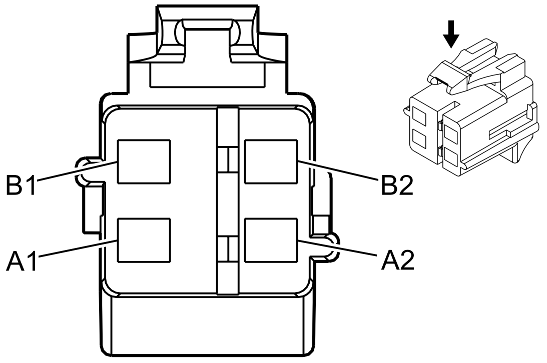
Terminal Part Information

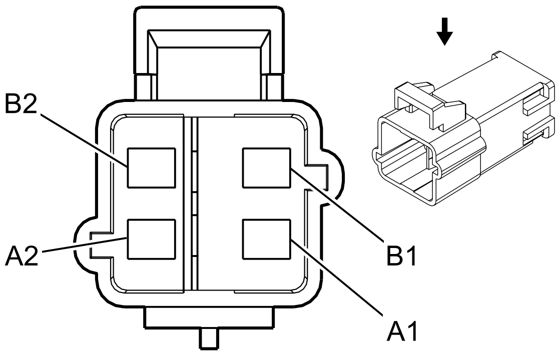
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575492	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	13327129	J-35616-3 (GY)	J-38125-553	15304702	19	E	C

X225 Accelerator Pedal Position (APP) Sensor Jumper Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.35 DK BLU	0.35 DK BLU	1274	I	-	Accelerator Pedal Position 5 Volt Reference (2)	A	0.35 DK BLU	0.35 DK BLU	1274	II	-
B	0.35 LT BLU	0.35 LT BLU	1164	I	-	Accelerator Pedal Position 5 Volt Reference (1)	B	0.35 LT BLU	0.35 LT BLU	1164	II	-
C	0.35	WH/BK	1161	I	-	Accelerator Pedal Position Signal (1)	C	0.35	WH/BK	1161	II	-
D	0.35	BRN	1271	I	-	Accelerator Pedal Position Low Reference (1)	D	0.35	BRN	1271	II	-
E	0.35	PPL	1272	I	-	Accelerator Pedal Position Low Reference (2)	E	0.35	PPL	1272	II	-
F	0.35	TN	1162	I	-	Accelerator Pedal Position Signal (2)	F	0.35	TN	1162	II	-

X276 Steering Wheel Harness to Instrument Panel Harness





Connector Part Information

Harness Type: Steering Wheel

OEM Connector: 15336479

Service Connector: 15306186

Description: 4-Way F Metri-Pack 280 Series (YE)

Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15336476

Service Connector: 88987998

Description: 4-Way M Metri-Pack 280 Series (YE)

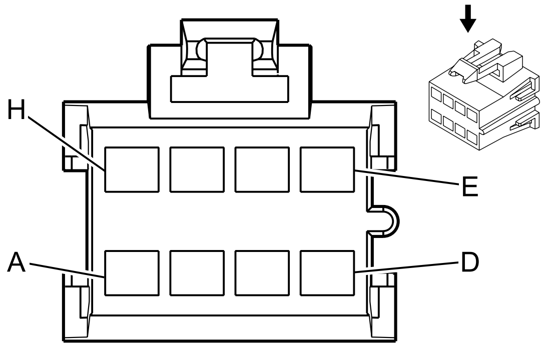
Terminal Part Information

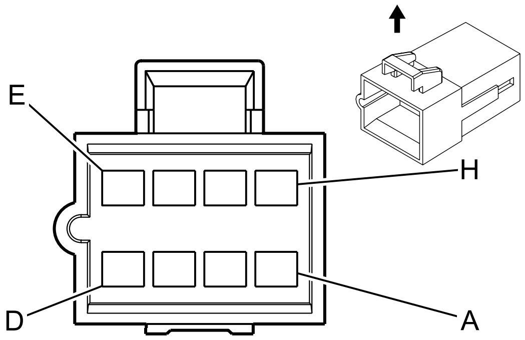
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly–15336479	Pending	Not Available	Service by Connector Assembly–15336479	Service by Connector Assembly–15336479	Not Available	Not Available
II	13575715	J-35616-5 (PU)	J-38125-11A	12034047	2	E	A

X276 Steering Wheel Harness to Instrument Panel Harness

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A1	0.5	TN	3021	I	-	Steering Wheel Module– Stage 1– High Control	A1	0.5	TN	3021	II	-
A2	0.5	BN	3020	I	-	Steering Wheel Module– Stage 1– Low Control	A2	0.5	BN	3020	II	-
B1	0.5	WH	3023	I	Light Duty	Steering Wheel Module– Stage 2– High Control	B1	0.5	WH	3023	II	Light Duty
B2	0.5	PK	3022	I	Light Duty	Steering Wheel Module– Stage 2– Low Control	B2	0.5	PK	3022	II	Light Duty

X278 Instrument Panel Harness to Professional Harness (PRP)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12064998

Service Connector: 15306189

Description: 8-Way F Metri-Pack 280 Series (BK)

Connector Part Information

Harness Type: Professional

OEM Connector: 12066195

Service Connector: 15306155

Description: 8-Way M Metri-Pack 280 Series (BK)

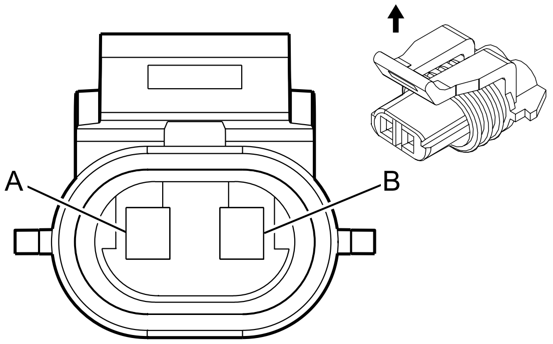
Terminal Part Information

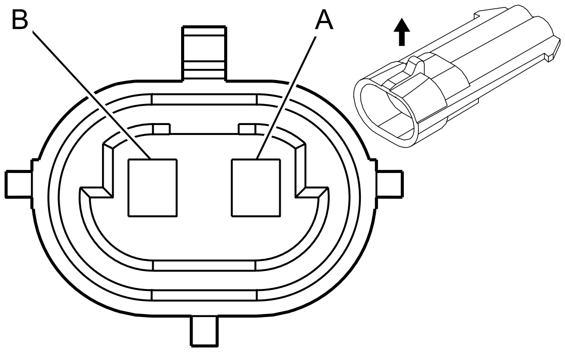
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12034046	2	Pins: A-C, H – E	A
II	Service by Connector Assembly – 12066195	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X278 Instrument Panel Harness to Professional Harness (PRP)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	L-BU	244	I	-	Front Passenger Door Lock Switch Lock Signal	A	0.5	L-BU	244	II	-
B	0.5	L-BU	1344	I	-	Liftgate Release Relay Control	B	0.5	L-BU	1344	II	-
C	0.5	L-GN	1391	I	-	Door Lock Relay Control	C	0.5	L-GN	1391	II	-
D–F	-	-	-	-	-	Not Occupied	D–F	-	-	-	-	-
G	0.8	OG	1732	I	-	Inadvertent Power Courtesy Lamp Control	G	0.8	OG	1732	II	-
H	0.5	YE	5810	I	-	Park Enable Signal	H	0.5	YE	5810	II	-

X305 Chassis Harness to Fuel Pump Jumper Harness (K08)





Connector Part Information

Harness Type: Chassis

OEM Connector: 12052644

Service Connector: Service by Harness - See Part Catalog

Description: 2-Way F Metri-Pack 150 Series, Sealed (GY)

Connector Part Information

Harness Type: Coolant Heater Fuel Pump Jumper

OEM Connector: 12162343

Service Connector: 15302767

Description: 2-Way M Metri-Pack 150 (GY)

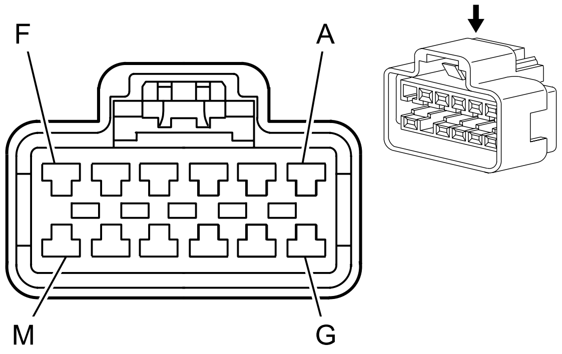
Terminal Part Information

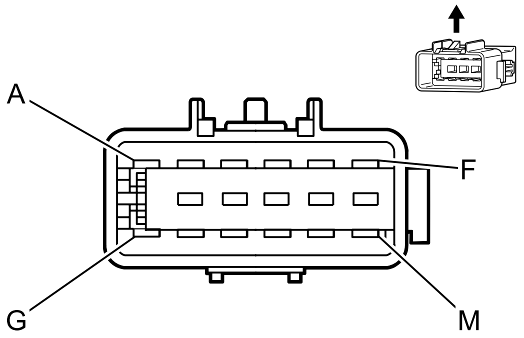
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575427	J-35616-14 (GN)	J-38125-12A	12048074	2	Pin A– E	1
II	Service by Connector Assembly	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X305 Chassis Harness to Fuel Pump Jumper Harness (K08)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	D-BU/L-GN	7077	I	-	Coolant Heater– Fuel Pump Control	A	0.8	D-BU/L-GN	7077	II	-
B	0.8	BK	150	I	-	Ground	B	0.8	BK	150	II	-

X306 Body Harness to Passenger Seat Harness





Connector Part Information

Harness Type: Body

OEM Connector: 15326110

Service Connector: 15326110

Description: 12-Way F GT 280 Series (BK)

Connector Part Information

Harness Type: Passenger Seat

OEM Connector: 15326942

Service Connector: 15326942

Description: 12-Way M GT 280 Series (BK)

Terminal Part Information

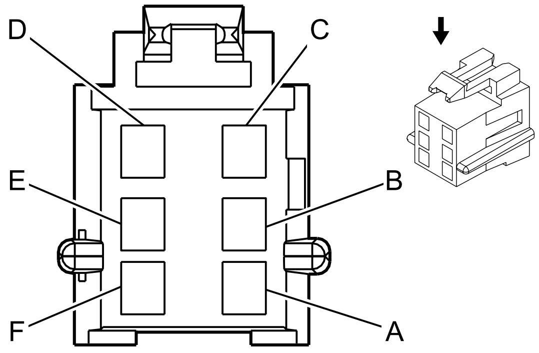
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575753	J-35616-4A (PU)	J-38125-553	15304711	8	E	A
II	13575756	J-35616-4A (PU)	J-38125-553	15304713	19	F	D
III	Service by Harness – See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

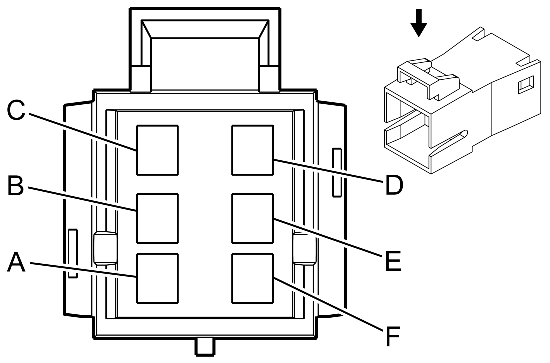
X306 Body Harness to Passenger Seat Harness

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	RD/WH	3440	I	Light Duty without YF7	Battery Positive Voltage	A	0.5	RD/WH	3440	III	Light Duty without YF7
B	0.5	BK/WH	1751	I	Light Duty without YF7	Ground	B	0.5	BK/WH	1751	III	Light Duty without YF7
C	0.5	OG	1362	I	Light Duty	Seat Belt Switch – Right – Signal	C	0.5	OG	1362	III	Light Duty
D	0.5	PK	5057	I	Light Duty	Low Reference	D	0.5	PK	5057	III	Light Duty
E	0.5	L-BU	5056	I	Light Duty	Seat Position Sensor – Right – Signal	E	0.5	L-BU	5056	III	Light Duty
F	0.5	D-GN	5060	I	Light Duty withou	Low Speed GMLAN Serial Data	F	0.5	D-GN	5060	III	Light Duty withou

					Duty without YF7	Serial Data						Duty without YF7
G	3	RD/WH	3540	II	-	Battery Positive Voltage	G	3	RD/WH	3540	III	AG2
H	3	BK	1850	II	-	Ground	H	3	BK	1850	III	AG2
J–M	-	-	-	-	-	Not Occupied	J–M	-	-	-	-	-

X307 Body Harness to Driver Seat Harness





Connector Part Information

Harness Type: Body

OEM Connector: 12064752

Service Connector: 15305888

Description: 6-Way F Metri-Pack 280 Series (BK)

Connector Part Information

Harness Type: Driver Seat

OEM Connector: 12064754

Service Connector: 15305872

Description: 6-Way M Metri-Pack 280 Series, Self Lock (BK)

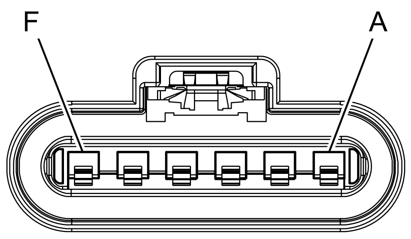
Terminal Part Information

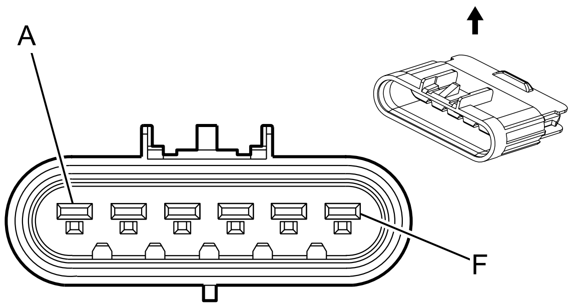
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	Pins: A–C – 12034046	2	Pins: A–C – E	A
II	Service by Harness – See Part Catalog	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

X307 Body Harness to Driver Seat Harness

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	L-GN	5055	I	Light Duty	Seat Position Sensor – Left – Signal	A	0.5	L-GN	5055	II	Light Duty
B	0.5	PK	5057	I	-	Low Reference	B	0.5	PK	5057	II	-
C	0.5	TN/WH	238	I	-	Seat Belt Switch – Left	C	0.5	TN/WH	238	II	-
D	3	BK	450	I	AG1	Ground	D	3	BK	450	II	AG1
E	3	RD/WH	3540	I	AG1	Battery Positive Voltage	E	3	RD/WH	3540	II	AG1
F	-	-	-	-	-	Not Occupied	F	-	-	-	-	-

X316 Transmission Harness to Fuel Pump Harness (LGH)





Connector Part Information

Harness Type: Transmission

OEM Connector: 13521467

Service Connector: 13506001

Description: 6-Way F GT 280 Series, Sealed (BK)

Connector Part Information

Harness Type: Fuel Pump

OEM Connector: 15326640

Service Connector: 88953150

Description: 6-Way M GT 280 Series Sealed (BK)

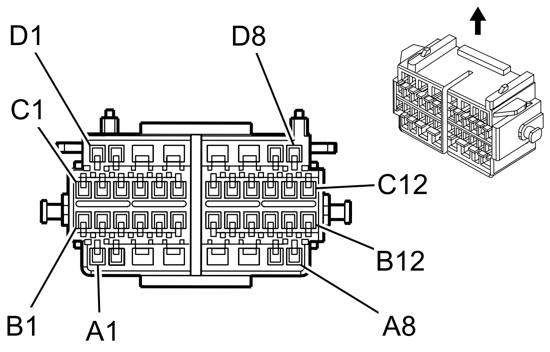
Terminal Part Information

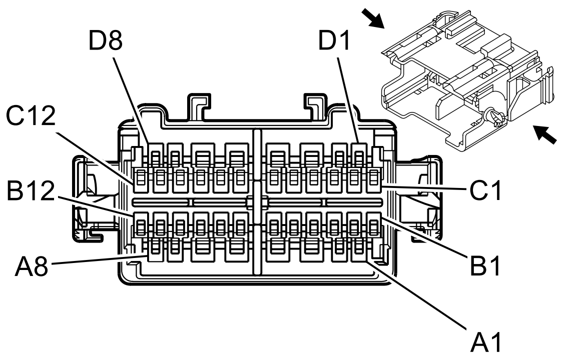
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				15304719	19	Pins: C–F : 2	5
II				See Terminal Repair Kit	See Terminal Repair Kit	See Terminal Repair Kit	See Terminal Repair Kit

X316 Transmission Harness to Fuel Pump Harness (LGH)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	D-BU/YE	6861	I	-	Water In Fuel Indicator Control	A	0.5	YE/BK	508	II	-
B	0.5	D-BU	6863	I	-	Low Reference	B	0.5	D-BU	6863	II	-
C	1	BK	150	I	-	Ground	C	1	BK	150	II	-
D	0.8	PK	2239	I	-	Ignition Voltage	D	0.8	PK	2239	II	-
E	1	BK	150	I	-	Ground	E	1	BK	150	II	-
F	0.8	GY	120	I	-	Fuel Pump Control	F	0.8	GY	120	II	-

X318 Instrument Panel Harness to Body Harness (Passenger or Cargo)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 15448130

Service Connector: 89046970

Description: 40-Way F GT 150 280 Series (L-GY)

Connector Part Information

Harness Type: Body

OEM Connector: 15475870

Service Connector: 88988616

Description: 40-Way M GT 150 280 Series (L-GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12191812	19	Pins: A1–A2, B1, B3–B4, C1, C3–C5, D1–D2 – C	A
II				15304711	8	Pins: D3 – 2	A
III				15304702	19	Pins: A7–A8, B10–B11, C2, C7–C12, D7–D8 – E	C
IV				15304722	8	E	C
V				15304724	8	2	A

X318 Instrument Panel Harness to Body Harness (Passenger or Cargo)

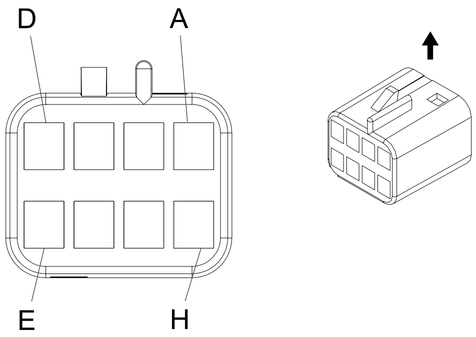
Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A1	0.8	OG	1853	I I II	-	Right Front Midrange Speaker Output (+)	A1	0.8	OG	1853	III III IV	-
A2	0.8	D-GN	1953	I I II	-	Right Front Midrange Speaker Output (−)	A2	0.8	D-GN	1953	III III IV	-
A3	0.5	BK//WH	1751	I I II	-	Ground	A3	0.5	BK//WH	1751	III III IV	-
A4	0.5	TN/BK	371	I	C99	Instrument Panel	A4	0.5	TN/BK	371	III	C99

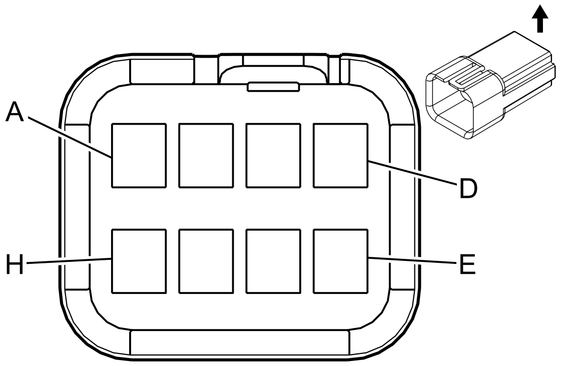
A4	0.5	TN/BK	371	I I II	C99	Instrument Panel Module Disable Switch – Signal	A4	0.5	TN/BK	371	III III IV	C99
A5	0.5	WH/BK	6436	I I II	JL4	CAN Bus Low Terminated Serial Data	A5	0.5	WH/BK	6436	III III IV	JL4
A6	0.5	BN/WH	6437	I I II	JL4	CAN Bus High Terminated Serial Data	A6	0.5	BN/WH	6437	III III IV	JL4
A7	0.35	D-BU/WH	1179	I I II	E26	Left Rear Door Open Switch Signal	A7	0.35	D-BU/WH	1179	III III IV	E26
A8	0.35	YE/BK	1181	I I II	-	Right Rear Door Open Switch Signal	A8	0.35	YE/BK	1181	III III IV	-
B1	0.8	L-BU	1320	I I	-	Center High Mounted Stop Lamp (CHMSL) Control	B1	0.8	L-BU	1320	III	-
B2	0.5	BK/WH	1751	I I	Light Duty	Ground	B2	0.5	BK/WH	1751	III	Light Duty
B3	0.8	TN	1855	I I	-	Right Rear Midrange Speaker Output (+)	B3	1	TN	1855	III	-
B4	0.8	OG	1955	I I	-	Right Rear Midrange Speaker Output (−)	B4	1	OG	1955	III	-
B5	0.5	BK/WH	1751	I I	-	Ground	B5	0.5	BK/WH	1751	III	-
B6	0.5	GY/BK	1337	I I	JL4	5-Volt Reference	B6	0.5	GY/BK	1337	III	JL4
B7	0.5	BN/WH	6618	I I	-	Discriminating Sensor – Signal	B7	0.5	BN/WH	6618	III	-
B8	0.5	D-BU/WH	6619	I I	-	Low Reference	B8	0.5	D-BU/WH	6619	III	-
B9	0.35	D-GN	5060	I I	Light Duty without YF7	Low Speed GMLAN Serial Data	B9	0.5	D-GN	5060	III	Light Duty without YF7
B10	0.35	D-GN	5060	I I	-	Low Speed GMLAN Serial Data	B10	0.35	D-GN	5060	III	-
B11	0.35	D-GN	6134	I I	-	Local Interconnect Network 3	B11	0.35	D-GN	6134	III	-
B12	-	-	-	-	-	Not Occupied	B12	-	-	-	-	-

B12	-	-	-	-	-	Not Occupied	B12	-	-	-	-	-
C1	0.8	GY	654	I	UE1	Low Reference	C1	0.8	GY	654	III	UE1
C2	0.35	PK	1139	I	-	Ignition Voltage	C2	0.35	PK	1139	III	-
C3	0.8	TN	1859	I	-	Left Rear Midrange Speaker Output (+)	C3	1	TN	1859	III	-
C4	0.8	WH	1959	I	-	Left Rear Midrange Speaker Output (−)	C4	1	WH	1959	III	-
C5	0.8	D-GN	655	I	UE1	Celular Telephone Voice Signal	C5	0.8	D-GN	655	III	UE1
C6	0.5	BK/PU	7499	I	JL4	Low Reference	C6	0.5	BK/PU	7499	III	JL4
C7	0.35	L-GN	5926	I	-	Rear Access Open Switch Signal	C7	0.35	L-GN	5926	III	-
C8	0.35	PK/BK	1303	I	-	Cargo Door Ajar Switch Signal	C8	0.35	PK/BK	1303	III	-
C9	0.35	TN/WH	746	I	-	Right Front Door Ajar Switch Signal	C9	0.35	TN/WH	746	III	-
C10	0.35	L-GN	1177	I	-	Right Front Door Open Switch Signal	C10	0.35	L-GN	1177	III	-
C11	0.5	TN	126	I	-	Left Front Door Open Switch Signal	C11	0.35	TN	126	III	-
C12	0.35	GY/BK	745	I	-	Left Front Door Ajar Switch Signal	C12	0.35	GY/BK	745	III	-
D1	0.8	D-BU	1857	I I II	-	Left Front Midrange Speaker Output (+)	D1	0.8	D-BU	1857	III III IV	-
D2	0.8	L-BU	1957	I I II	-	Left Front Midrange Speaker Output (−)	D2	0.8	L-BU	1957	III III IV	-
D3	0.8 0.5	OG OG	1732 1732	I I II	except PRP PRP	Courtesy Lamp Control Courtesy Lamp Control	D3	0.8	OG	1732	III III IV V	-
D4	0.5	PK	353	I I II	C99	Instrument Panel Module Suppression Indicator Control	D4	0.5	PK	353	III III IV	C99
D5	0.5	PK/BK	780	I I II	AU3	Driver Door Lock Switch Lock Signal	D5	0.35	PK/BK	780	III III IV	AU3
D6	0.5	OG/BK	781	I I II	AU3	Driver Door Lock Switch Unlock Signal	D6	0.35	OG/BK	781	III III IV	AU3

				II							IV	
D7	0.35	L-BU	244	I I II	AU3	Passenger Door Lock Switch Lock Control	D7	0.35	L-BU	244	III III IV	AU3
D8	0.35	D-BU	245	I I II	AU3	Passenger Door Lock Switch Unlock Control	D8	0.35	D-BU	245	III III IV	AU3

X319 Rear Heater Switch Harness to Body Harness (C36 with ENC)





Connector Part Information

Harness Type: Rear Heater Switch

OEM Connector: 12047886

Service Connector: 13584485

Description: 8-Way F Metri-Pack 150 Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 12045688

Service Connector: 13584253

Description: 8-Way M Metri-Pack 150 Series (BK)

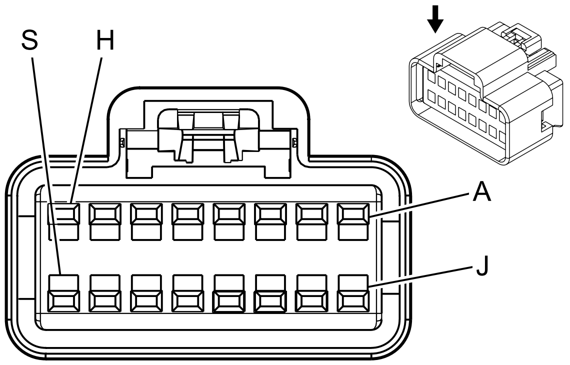
Terminal Part Information

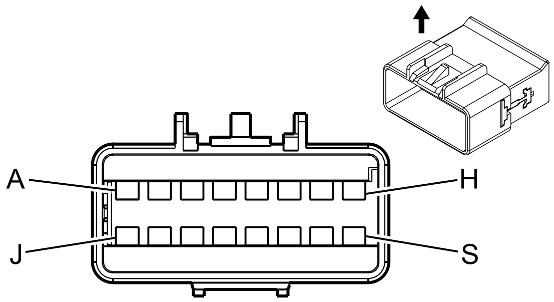
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	5	E	C
II	13575462	J-35616-3 (GY)	J-38125-12A	12047581	2	E	C

X319 Rear Heater Switch Harness to Body Harness (C36 with ENC)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.35	WH	1924	I	-	Auxiliary Blower Motor High Control	A	0.35	WH	1924	II	-
B	0.35	OG	1925	I	-	Auxiliary Blower Motor Medium Control	B	0.35	OG	1925	II	-
C	0.35	D-BU	1926	I	-	Auxiliary Blower Motor Low Control	C	0.35	D-BU	1926	II	-
D	0.35	BN/WH	230	I	-	Instrument Panel Lamps Dimming Control	D	0.35	BN/WH	230	II	-
E	0.35	BK	450	I	-	Ground	E	0.35	BK	450	II	-
F–H	-	-	-	-	-	Not Occupied	F–H	-	-	-	-	-

X320 Upfitter Provision Harness to Body Harness (YF2 or YF7)





Connector Part Information

Harness Type: Upfitter Provision

OEM Connector: 15332177

Service Connector: 15332177

Description: 16-Way F GT 150 Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 13516907

Service Connector: 19153746

Description: 16-Way M GT 150 Series (BK)

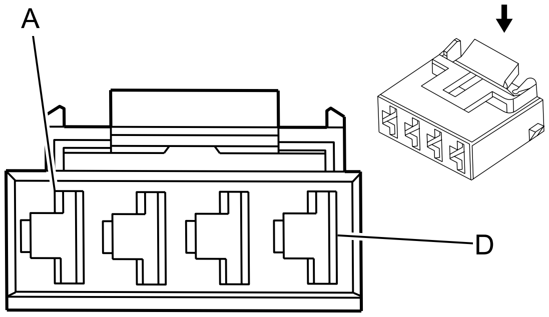
Terminal Part Information

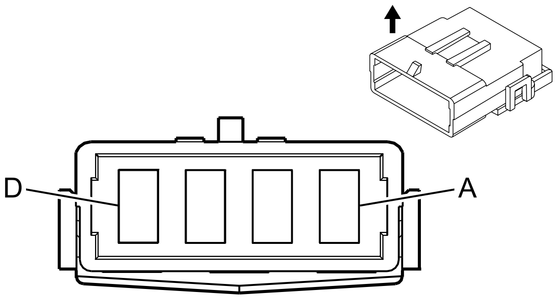
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 15332177	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13575502	J-35616-3 (GY)	J-38125-553	15304702	19	Pins: A– D – 2	4

X320 Upfitter Provision Harness to Body Harness (YF2 or YF7)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	—	—	1959	I	-	Left Rear Midrange Speaker Output (−)	A	1	WH	1959	II	-
B	—	—	1859	I	-	Left Rear Midrange Speaker Output (+)	B	1	TN	1859	II	-
C	—	—	1955	I	-	Right Rear Midrange Speaker Output (−)	C	1	OG	1955	II	-
D	—	—	1855	I	-	Right Rear Midrange Speaker Output (+)	D	1	TN	1855	II	-
E–N	-	-	-	-	-	Not Occupied	E–N	-	-	-	-	-
P	—	—	450	I	-	Ground	P	0.5	BK	450	II	-
R	—	—	149	I	-	Courtesy Lamp Control	R	0.5	D-BU/WH	149	II	-
S	—	—	2209	I	-	Rear Park Lamps Control	S	0.5	BN	2209	II	-

X321 Upfitter Provision Harness to Body Harness (YF2 or YF7)





Connector Part Information

Harness Type: Upfitter Provision

OEM Connector: 12015664

Service Connector: 12085487

Description: 4-Way F Metri-Pack 630 Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 12052623

Service Connector: 15306008

Description: 4-Way M Metri-Pack 630 Series (BK)

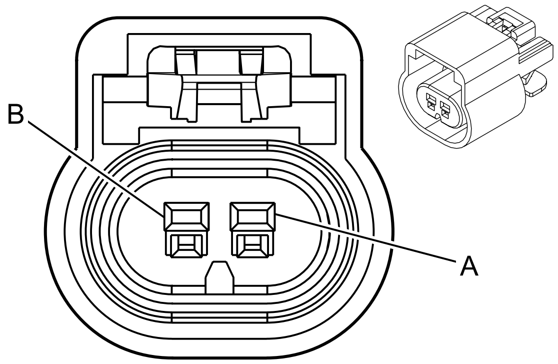
Terminal Part Information

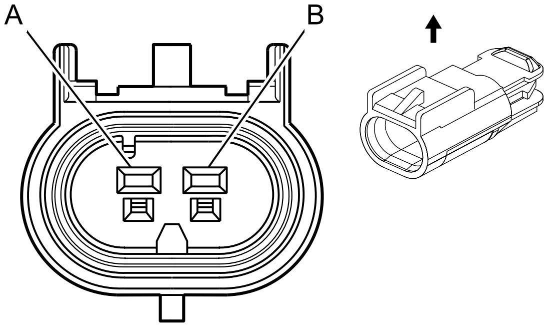
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 12015664	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	Pending	J-35616-43 (RD)	J-38125-11A	12066493	3	B	G

X321 Upfitter Provision Harness to Body Harness (YF2 or YF7)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	—	—	1042	I	-	Battery Positive Voltage	A	5	RD/BK	1042	II	-
B	—	—	541	I	-	Ignition Voltage	B	5	BN	541	II	-
C	—	—	450	I	-	Ground	C	5	BK	450	II	-
D	-	-	-	-	-	Not Occupied	D	-	-	-	-	-

X324 Right Rear Side Impact Sensor Jumper to Body Harness (ASF)





Connector Part Information

Harness Type: Right Rear Side Impact Sensor Jumper

OEM Connector: 13510085

Service Connector: 13580114

Description: 2-Way F GT 150 Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 13510099

Service Connector: 13580103

Description: 2-Way M GT 150 Series, Sealed (BK)

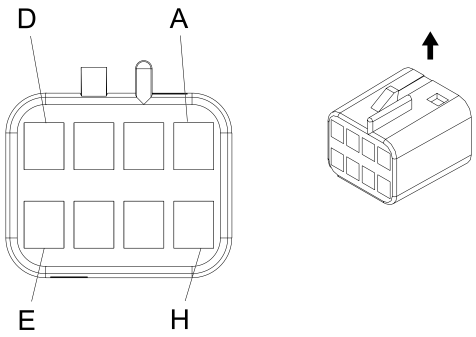
Terminal Part Information

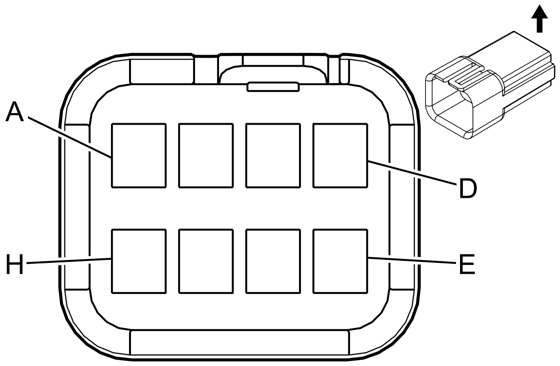
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575413	J-35616-2A (GY)	J-38125-553	12191819	8	E	1
II	13575398	J-35616-3 (GY)	J-38125-553	15326269	19	E	4

X324 Right Rear Side Impact Sensor Jumper to Body Harness (ASF)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	PK/BK	6627	I	-	Low Reference	A	0.5	PK/BK	6627	II	-
B	0.5	L-BU/WH	6626	I	-	Right Rear Side Impact Sensing Module Signal	B	0.5	L-BU/WH	6626	II	-

X329 Instrument Panel Harness to Body Harness (UVC)





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 12047886

Service Connector: 13584485

Description: 8-Way F Metri-Pack 150 Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 12089526

Service Connector: 13584253

Description: 8-Way M Metri-Pack 150 Series (BK)

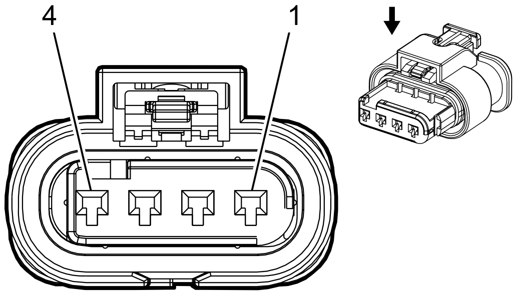
Terminal Part Information

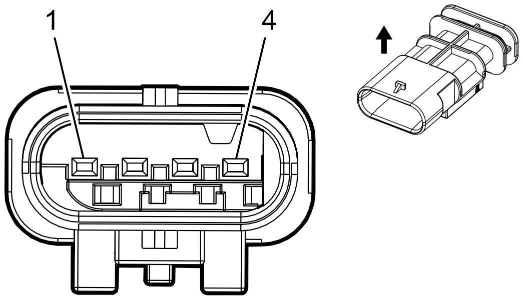
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	13575464	J-35616-14 (GN)	J-38125-12A	15326030	2	E	C

X329 Instrument Panel Harness to Body Harness (UVC)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.35	WH	7641	I	-	Camera Rear Vision Signal +	A	0.35	WH	7641	II	-
B	0.35	L-BU	7642	I	-	Camera Rear Vision Signal (-)	B	0.35	L-BU	7642	II	-
C	-	-	-	-	-	Not Occupied	C	-	-	-	-	-
D	0.5	L-GN	24	I	-	Backup Lamp Supply Voltage	D	0.5	L-GN	24	II	-
E	0.5	PK	239	I	-	Run/Crank Ignition 1 Voltage	E	0.5	PK	239	II	-
F	0.5	L-GN	24	I	-	Backup Lamp Supply Voltage	F	0.5	L-GN	24	II	-
G	-	-	-	-	-	Not Occupied	G	-	-	-	-	-
H	0.35	BARE	6799	I	-	Camera Shield	H	0.35	BARE	6799	II	-

X330 Instrument Panel Harness to Body Harness





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13854531

Service Connector: 13586137

Description: 4-Way F Metri-Pack 1.2 Series (YE)

Connector Part Information

Harness Type: Body

OEM Connector: 13854529

Service Connector: Service by Harness – See Part Catalog

Description: 4-Way M Metri-Pack 1.2 Series (YE)

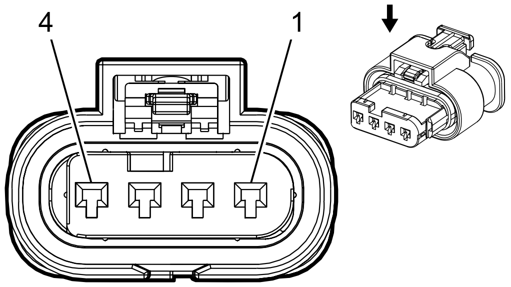
Terminal Part Information

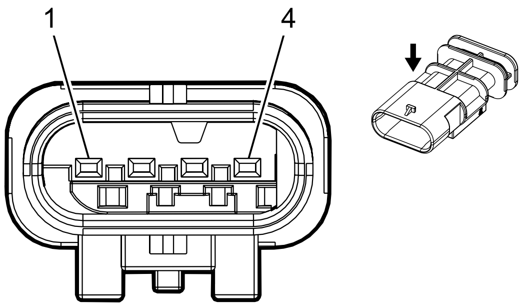
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X330 Instrument Panel Harness to Body Harness

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
1	0.5	TN	3021	I	-	Steering Wheel Module– Stage 1– High Control	1	0.5	TN	3021	II	-
2	0.5	BN	3020	I	-	Steering Wheel Module– Stage 1– Low Control	2	0.5	BN	3020	II	-
3	0.5	WH	3023	I	Light Duty	Steering Wheel Module– Stage 2– High Control	3	0.5	WH	3023	II	Light Duty
4	0.5	PK	3022	I	Light Duty	Steering Wheel Module– Stage 2– Low Control	4	0.5	PK	3022	II	Light Duty

X331 Instrument Panel Harness to Body Harness





Connector Part Information

Harness Type: Instrument Panel

OEM Connector: 13854532

Service Connector: Service by Harness – See Part Catalog

Description: 4-Way F Metri-Pack 1.2 Series (YE)

Connector Part Information

Harness Type: Body

OEM Connector: 13854530

Service Connector: Service by Harness – See Part Catalog

Description: 4-Way M Metri-Pack 1.2 Series (YE)

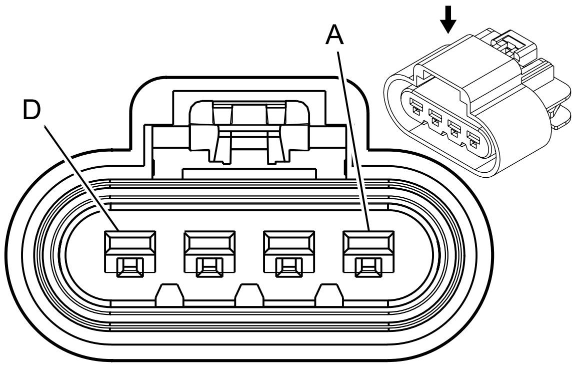
Terminal Part Information

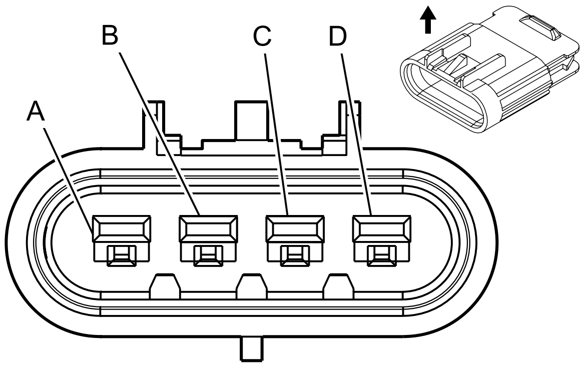
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	Pending	Pending	Pending	Not Available	Not Available	Not Available	Not Available

X331 Instrument Panel Harness to Body Harness

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
1	0.5	YE	3025	I	-	Instrument Panel Module– Stage 1– High Control	1	0.5	YE	3025	II	-
2	0.5	OG	3024	I	-	Instrument Panel Module– Stage 1– Low Control	2	0.5	OG	3024	II	-
3	0.5	GY	3027	I	Light Duty with AK5	Instrument Panel Module– Stage 2– High Control	3	0.5	GY	3027	II	Light Duty with AK5
4	0.5	PU	3026	I	Light Duty with AK5	Instrument Panel Module– Stage 2– Low Control	4	0.5	PU	3026	II	Light Duty with AK5

X350 Chassis Harness to CNG Power Harness (FHZ)





Connector Part Information

Harness Type: Chassis

OEM Connector: 13521459

Service Connector: 13580864

Description: 4-Way F GT 280 5.8 Series, Sealed (BK)

Connector Part Information

Harness Type: CNG Power

OEM Connector: 15326633

Service Connector: 13580884

Description: 4-Way M GT 280 Sealed (BK)

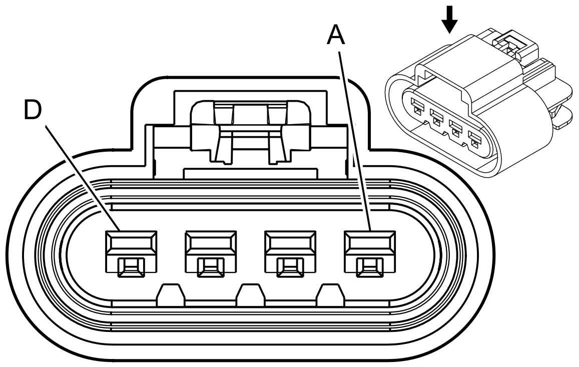
Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575403	J-35616-4A (PU)	J-38125-553	15304720	19	4	5
II	13578915	J-35616-4A (PU)	J-38125-553	15304719	19	E	5
III	13327135	J-35616-5 (PU)	J-38125-553	15304731	19	C	5

X350 Chassis Harness to CNG Power Harness (FHZ)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	3	BK	150	I	-	Ground	A	0.75	BK	—	III	-
B	0.5	PU	1589	II	-	Fuel Level Sensor Signal	B	0.75	PU	—	III	-
C	0.5	TN	2759	II	-	Low Reference	C	—	—	—	III	-
D	3	GY	120	I	-	Fuel Pump Control	D	0.75	GY	—	III	-

X350 Chassis Harness to LPG Chassis Harness (KO7 with UFM)



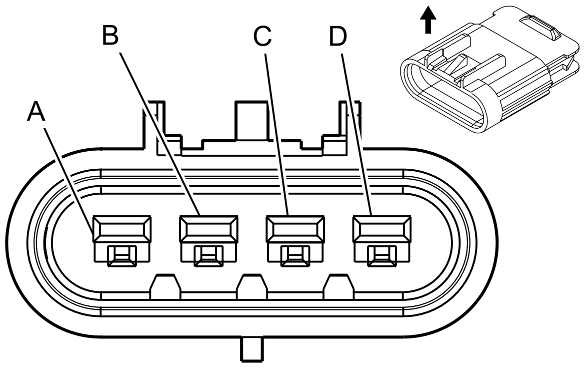
Connector Part Information

Harness Type: Chassis

OEM Connector: 13521459

Service Connector: 13580864

Description: 4-Way F GT 280 5.8 Series, Sealed (BK)



Connector Part Information

Harness Type: LPG Chassis

OEM Connector: 15326633

Service Connector: 13580884

Description: 4-Way M GT 280 Sealed (BK)

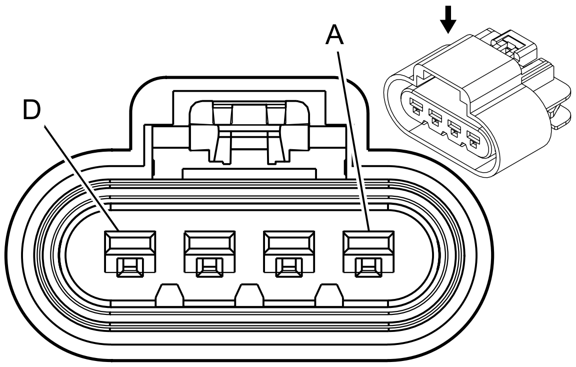
Terminal Part Information

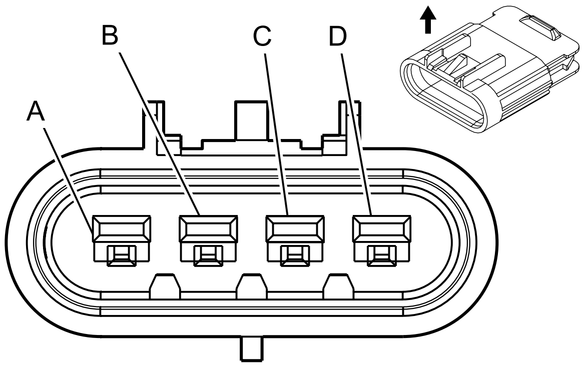
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575403	J-35616-4A (PU)	J-38125-553	15304720	19	4	5
II	13578915	J-35616-4A (PU)	J-38125-553	15304719	19	E	5
III	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available
IV	13580826	J-35616-5 (PU)	J-38125-553	15304731	19	C	5

X350 Chassis Harness to LPG Chassis Harness (KO7 with UFM)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	3	BK	150	I	-	Ground	A	3	BK	—	III	-
B	0.5	PU	1589	II	-	Fuel Level Sensor	B	0.8	PU	—	IV	-
C	0.5	TN	2759	II	-	Low Reference	C	0.8	TN	—	IV	-
D	3	GY	120	I	-	Fuel Pump Control	D	3	GY	—	III	-

X350 Chassis Harness to LPG Harness (KO7 with UFP)





Connector Part Information

Harness Type: Chassis

OEM Connector: 13521459

Service Connector: 13580864

Description: 4-Way F GT 280 5.8 Series, Sealed (BK)

Connector Part Information

Harness Type: LPG Chassis

OEM Connector: 15326633

Service Connector: 13580884

Description: 4-Way M GT 280 Sealed (BK)

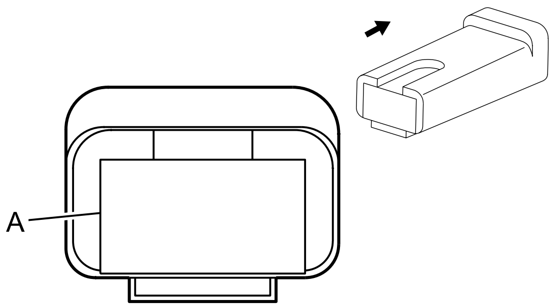
Terminal Part Information

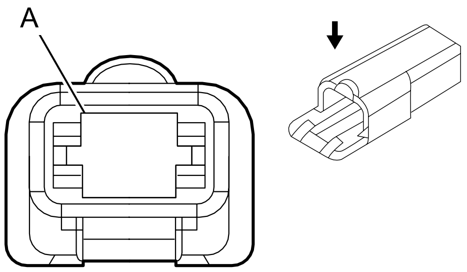
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575403	J-35616-4A (PU)	J-38125-553	15304720	19	4	5
II	13578915	J-35616-4A (PU)	J-38125-553	15304719	19	E	5
III	13580826	J-35616-5 (PU)	J-38125-553	15304731	19	C	5

X350 Chassis Harness to LPG Harness (KO7 with UFP)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	3	BK	150	I	-	Ground	A	—	—	—	III	-
B	0.5	PU	1589	II	-	Fuel Level Sensor – Primary	B	0.8	PU	—	III	-
C	0.5	TN	2759	II	-	Low Reference	C	—	—	—	III	-
D	3	GY	120	I	-	Fuel Pump Control	D	0.8	WH	—	III	-

X360 Professional Harness to Instrument Panel Harness (PRP)





Connector Part Information

Harness: Professional

OEM: 6288704

Service: Service by Harness - See Part Catalog

Description: 1-Way F 56 Series (CR)

Connector Part Information

Harness: Instrument Panel

OEM: 2984528

Service: 2984528

Description: 1-Way M 56 Series (BK)

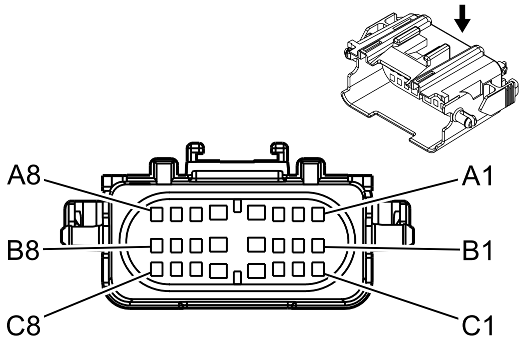
Terminal Part Information

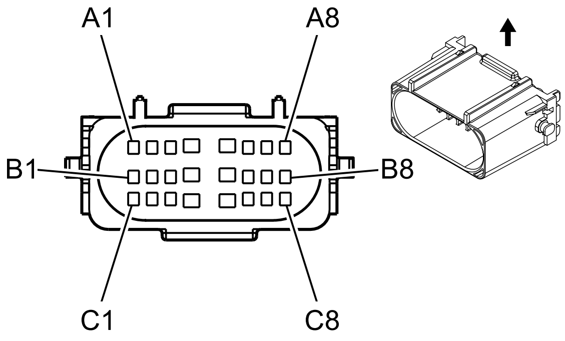
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness– See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	Service by Connector Assembly - 12015878	J-35616-43 (RD)	J-38125-11A	12015878	18	Not Available	Not Available

X360 Professional Harness to Instrument Panel Harness (PRP)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	5	RD/BK	1042	I	-	Battery Positive Voltage	A	5	RD/BK	1042	II	-

X395 Chassis Harness to Reductant Jumper Harness (LGH)





Connector Part Information

Harness Type: Chassis

OEM Connector: 15366099

Service Connector: 19153767

Description: 24-Way F GT 150 280 Sealed (BK)

Connector Part Information

Harness Type: Reductant Jumper

OEM Connector: 15336173

Service Connector: 19167005

Description: 24-Way M GT 150/280 (Mixed) (BK)

Terminal Part Information

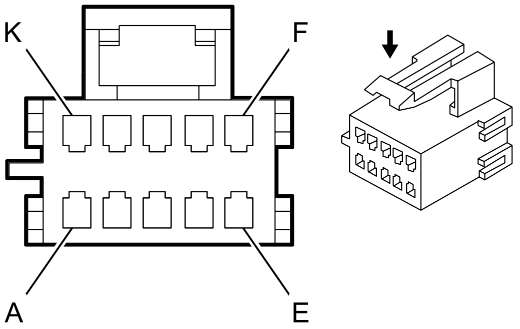
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I				12191819	8	2	1
II				15304719	19	2	5
III				12191819	8	E	1
IV				Pending	Pending	Pending	Pending
V				15326269	19	E	4
VI				15304731	19	2	5

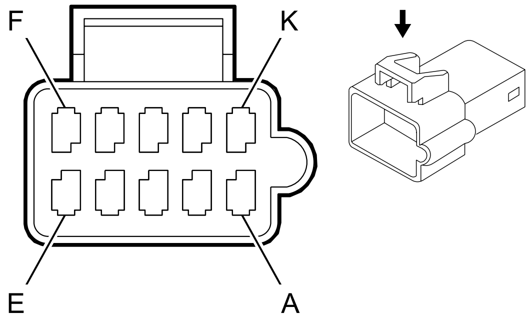
X395 Chassis Harness to Reductant Jumper Harness (LGH)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A1	1	BK	150	I	-	Ground	A1	0.5	BK	150	-	-
A2	1	PK/BK	5293	I	-	Ignition Voltage	A2	0.5	PK/BK	5293	-	-
A3	-	-	-	-	-	Not Occupied	A3	-	-	-	-	-
A4	2	BK	150	IV	-	Ground	A4	1	BK	417	-	-
A5	1	GY/WH	3675	II	-	DEF Pump Heater Control	A5	1	GY/WH	427	-	-
A6	0.5	D-BU	3105	-	-	DEF Smart Pump Supply Voltage	A6	0.5	D-BU	437	-	-
A7	0.5	D-GN	3101	-	-	DEF Reverting Valve High Control	A7	0.5	D-GN	517	-	-
A8	0.5	GY	3106	-	-	DEF Pressure Sensor	A8	0.5	GY	617	-	-

A8	0.5	GY	3106	-	-	DEF Pressure Sensor 5V Reference	A8	0.5	GY	617	-	-
B1	0.5	D-GN	7493	-	-	High Speed GMLAN Serial Data (+) (3)	B1	0.5	D-GN	147	-	-
B2	0.5	D-GN	7493	-	-	High Speed GMLAN Serial Data (+) (3)	B2	0.5	D-GN	167	-	-
B3	-	-	-	-	-	Not Occupied	B3	-	-	-	-	-
B4	1	BK	150	-	-	Ground	B4	1	BK	317	-	-
B5	1	GY/WH	3675	-	-	DEF Pump Heater Control	B5	1	PU/WH	327	-	-
B6	0.5	GY	3103	-	-	DEF Smart Pump Control	B6	0.5	GY	457	-	-
B7	0.5	BK	3102	-	-	DEF Reverting Valve Low Control	B7	0.5	BK	527	-	-
B8	0.5	BN	3108	-	-	DEF Pressure Sensor Signal	B8	0.5	BN	627	-	-
C1	0.5	L-GN	7494	-	-	High Speed GMLAN Serial Data (-) (3)	C1	0.5	L-GN	157	-	-
C2	0.5	L-GN	7494	-	-	High Speed GMLAN Serial Data (-) (3)	C2	0.5	L-GN	177	-	-
C3	-	-	-	-	-	Not Occupied	C3	-	-	-	-	-
C4	1	BK	150	-	-	Ground	C4	1	BK	217	-	-
C5	1	OG/WH	3677	-	-	DEF Reservoir Heater Control	C5	1	D-GN/WH	227	-	-
C6	0.5	TN	3104	III	-	DEF Smart Pump Low Reference	C6	0.5	TN	447	V	-
C7	-	-	-	-	-	Not Occupied	C7	-	-	-	-	-
C8	0.5	TN	3107	III	-	DEF Pressure Sensor Low Reference	C8	0.5	TN	637	V	-

X400 Right Rear Cargo Door to Body Harness (Passenger or Cargo)





Connector Part Information

Harness Type: Right Rear Cargo Door

OEM Connector: 15324054

Service Connector: Service by Harness – See Part Catalog

Description: 10-Way F Metri-Pack 150 (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 15324758

Service Connector: Service by Harness - See Part Catalog

Description: 10-Way M Metri-Pack 150 Series (BK)

Terminal Part Information

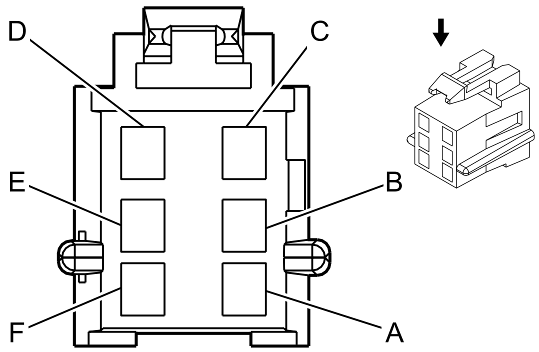
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pins: A–B, F–G – Pending	J-35616-14 (GN)	J-38125-12A	Pins: A–B, F–G – 15326030	2	Pins: A–B, F–G – E	A
II	Pins: A–B, D, F–G – 13505668	J-35616-3 (GY)	J-38125-12A	12047581	2	Pins: A–B, D, F–G – E	A

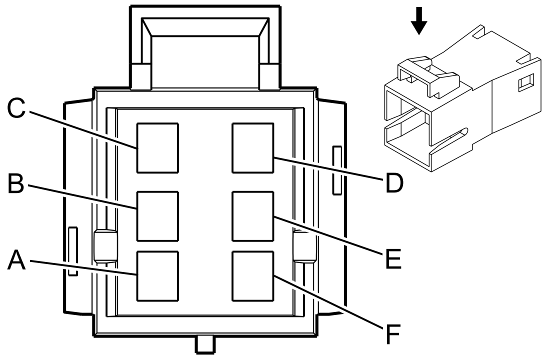
X400 Right Rear Cargo Door to Body Harness (Passenger or Cargo)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	1	TN	1855	I	-	Right Rear Midrange Speaker Output (+)	A	1	TN	1855	II	-
B	1	OG	1955	I	-	Right Rear Midrange Speaker Output (−)	B	1	OG	1955	II	-
C	-	-	-	-	-	Not Occupied	C	-	-	-	-	-
D	0.35	BK/WH	1051	I	-	Ground	D	1	BK/WH	1051	II	-
E	0.35	D-BU	245	I	AU3	Passenger Door Lock Switch Unlock Control	E	0.35	D-BU	245	II	AU3
F	1	GY	295	I	AU3	Door Lock Actuator Lock Control	F	1	GY	295	II	AU3
G	1	TN/BK	1095	I	AU3	Right Rear Door Lock Actuator Unlock Control	G	1	TN/BK	1095	II	AU3
H	0.35	L-GN	5926	I	-	Rear Access Open Switch Signal	H	0.35	L-GN	5926	II	-
J	0.35	PK/BK	1303	I	-	Cargo Door Ajar Switch	J	0.35	PK/BK	1303	II	-

J	0.35	PK/BK	1303	I	-	Cargo Door Ajar Switch Signal	J	0.35	PK/BK	1303	II	-
K	0.35	L-BU	244	I	AU3	Passenger Door Lock Switch Lock Control	K	0.35	L-BU	244	II	AU3

X401 Left Tail Lamp Harness to Body Harness (Passenger or Cargo)





Connector Part Information

Harness Type: Left Tail Lamp

OEM Connector: 12064752

Service Connector: 15305888

Description: 6-Way F Metri-Pack 280 Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 12064754

Service Connector: 15305872

Description: 6-Way M Metri-Pack 280 Series, Self Lock (BK)

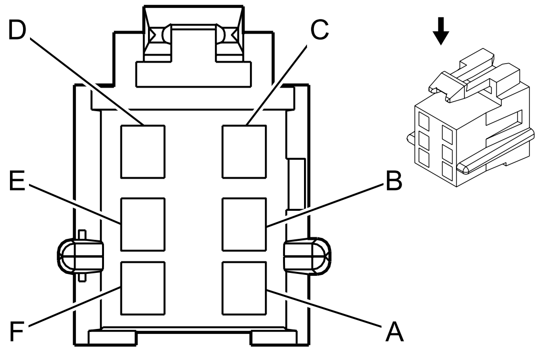
Terminal Part Information

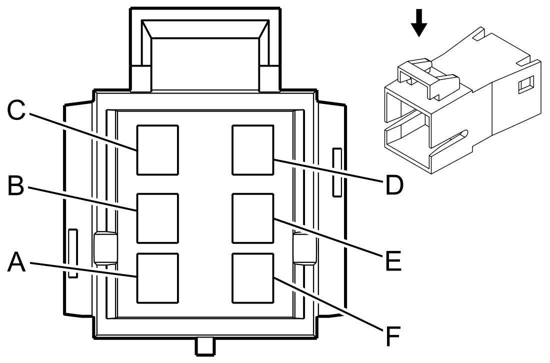
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 12064752	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	Pin A (Passenger or SEO) – 13575461	J-35616-5 (PU)	J-38125-11A	Pin A (Passenger or SEO) – 12020116	2	Pin A (Passenger or SEO) – C	A

X401 Left Tail Lamp Harness to Body Harness (Passenger or Cargo)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	BN	2509	I	-	Left Rear Park Lamps Control	A	0.5 0.5	BN BN	2509 2509	II	-
B	1	YE	618	I	-	Left Rear Turn Signal Lamp Control	B	1	YE	618	II	-
C	-	-	-	-	-	Not Occupied	C	-	-	-	-	-
D	0.8	BK	850	I	-	Ground	D	0.8	BK	850	II	-
E	-	-	-	-	-	Not Occupied	E	-	-	-	-	-
F	0.8	L-GN	24	I	-	Backup Lamp Control	F	0.8	L-GN	24	II	-

X402 Right Tail Lamp Harness to Body Harness (Passenger or Cargo)





Connector Part Information

Harness Type: Right Tail Lamp

OEM Connector: 12064752

Service Connector: 15305888

Description: 6-Way F Metri-Pack 280 Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 12064754

Service Connector: 15305872

Description: 6-Way M Metri-Pack 280 Series, Self Lock (BK)

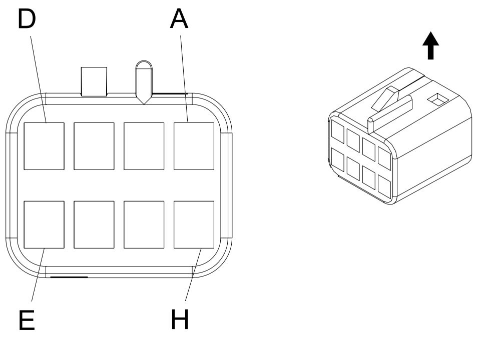
Terminal Part Information

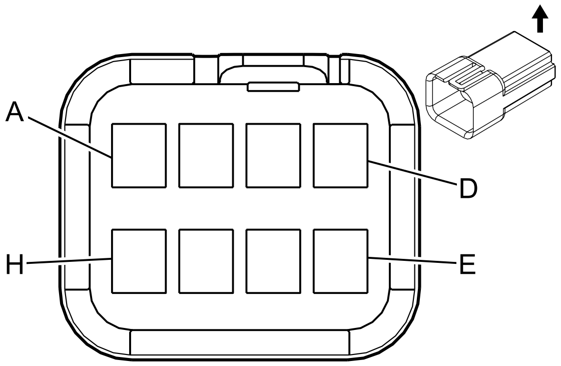
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 12064752	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	Pin A (Cargo or Cutaway) – 13575461	J-35616-5 (PU)	J-38125-11A	Pin A (Cargo or Cutaway) – 12020116	2	Pin A (Cargo or Cutaway) – C	A

X402 Right Tail Lamp Harness to Body Harness (Passenger or Cargo)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	BN	2609	I	-	Right Rear Park Lamps Control	A	0.5	BN	2609	II	-
B	1	YE	619	I	-	Right Rear Turn Signal Lamp Control	B	1	D-GN	619	II	-
C	-	-	-	-	-	Not Occupied	C	-	-	-	-	-
D	0.8	BK	1050	I	-	Ground	D	0.8	BK	1050	II	-
E	-	-	-	-	-	Not Occupied	E	-	-	-	-	-
F	0.8	L-GN	24	I	-	Backup Lamp Control	F	0.8	L-GN	24	II	-

X403 Rear Cargo Door Harness to Body Harness (UVC)





Connector Part Information

Harness Type: Rear Cargo Door

OEM Connector: 12047886

Service Connector: 13584485

Description: 8-Way F Metri-Pack 150 Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 12045688

Service Connector: 13584253

Description: 8-Way M Metri-Pack 150 Series (BK)

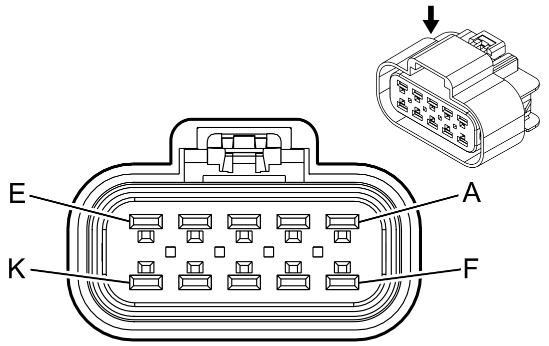
Terminal Part Information

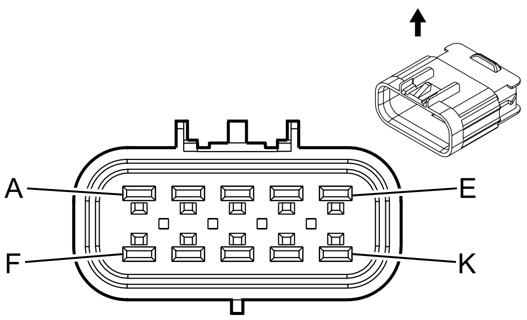
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Harness – See Part Catalog	Pending	Pending	Not Available	Not Available	Not Available	Not Available
II	13575464	J-35616-14 (GN)	J-38125-12A	15326030	2	E	C

X403 Rear Cargo Door Harness to Body Harness (UVC)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.35	WH	7641	I	-	Camera Rear Vision Signal +	A	0.35	WH	7641	II	-
B	0.35	L-BU	7642	I	-	Camera Rear Vision Signal (-)	B	0.35	L-BU	7642	II	-
C	-	-	-	-	-	Not Occupied	C	-	-	-	-	-
D	0.5	BK/WH	351	I	-	Signal Ground	D	0.5	BK/WH	351	II	-
E	0.5	PK	239	I	-	Run/Crank Ignition 1 Voltage	E	0.5	PK	239	II	-
F	0.5	L-GN	24	I	-	Backup Lamp Supply Voltage	F	0.5	L-GN	24	II	-
G	-	-	-	-	-	Not Occupied	G	-	-	-	-	-
H	0.35	BARE	6799	I	-	Camera Shield	H	0.35	BARE	6799	II	-

X405 Cutaway Rear Lighting Connector to Chassis Harness (Cutaway)





Connector Part Information

Harness Type: Cutaway Rear Lighting Connector

OEM Connector: 15326660

Service Connector: 88986262

Description: 10-Way F GT 280 5.8 Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis

OEM Connector: 15326661

Service Connector: 88986245

Description: 10-Way M GT 280 5.8 Series, Sealed (BK)

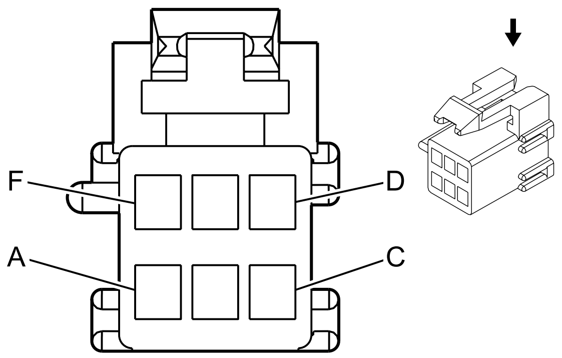
Terminal Part Information

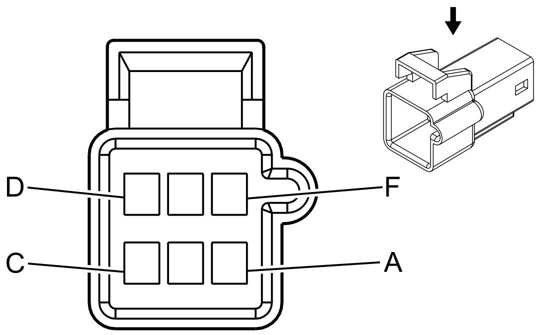
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575405	J-35616-4A (PU)	J-38125-553	15304719	19	2	5
II	13327135	J-35616-5 (PU)	J-38125-553	15304731	19	Pins: C–H – 2	5

X405 Cutaway Rear Lighting Connector to Chassis Harness (Cutaway)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A–B	-	-	-	-	-	Not Occupied	A–B	-	-	-	-	-
C	1	WH	17	I	-	Center High Mounted Stop Lamp (CHMSL) Control	C	1	L-BU	1320	II	-
D	1	YE	618	I	-	Left Rear Turn Signal Lamp Control	D	1	YE	618	II	-
E	1	D-GN	619	I	-	Right Rear Turn Signal Lamp Control	E	1	D-GN	619	II	-
F	1	BN	2109	I	-	Trailer Park Lamps Control	F	1	BN	2109	II	-
G	1	BK	150	I	-	Ground	G	1	BK	150	II	-
H	1	L-GN	1624	I	-	Trailer Backup Lamps Control	H	1	L-GN	1624	II	-
J	-	-	-	-	-	Not Occupied	J	-	-	-	-	-
K	0.8	D-BU/WH	149	I	-	Courtesy Lamp Control	K	0.8	D-BU/WH	149	II	-

X407 Rear HVAC Harness to Body Harness (C36 or C69)





Connector Part Information

Harness Type: Rear HVAC

OEM Connector: 12064762

Service Connector: 13583923

Description: 6-Way F Metri-Pack 150 Series (GY)

Connector Part Information

Harness Type: Body

OEM Connector: 12064763

Service Connector: 12101876

Description: 6-Way M Metri-Pack 150 Series (GY)

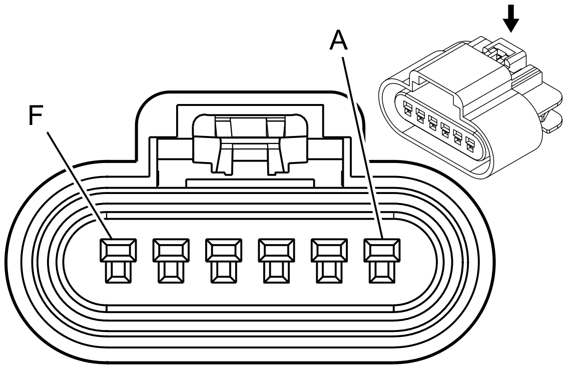
Terminal Part Information

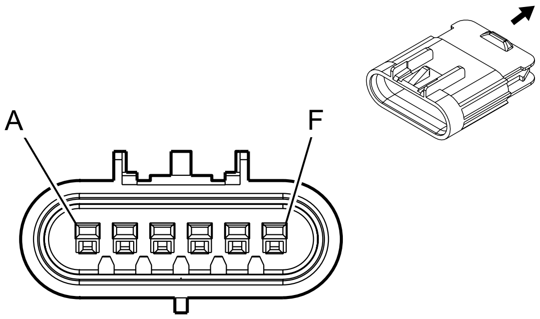
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575464	J-35616-14 (GN)	J-38125-12A	15326030	5	E	C
II	13575462	J-35616-3 (GY)	J-38125-12A	12047581	2	E	C

X407 Rear HVAC Harness to Body Harness (C36 or C69)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.35	OG	2775	I	C69	Auxiliary Air Temperature Door Control	A	0.35	OG	2775	II	C69
B	0.35	D-BU	1926	I	-	Auxiliary Blower Motor Low Control	B	0.35	D-BU	1926	II	-
C	0.35	WH	1924	I	-	Auxiliary Blower Motor High Control	C	0.35	WH	1924	II	-
D	0.35	OG	1925	I	-	Auxiliary Blower Motor Medium Control	D	0.35	OG	1925	II	-
E	0.35	BN	341	I	-	Ignition Voltage	E	0.35	BN	341	II	-
F	0.35	GY	2599	I	C69	Auxiliary Mode Door Control	F	0.35	GY	2599	II	C69

X408 Rear Bumper Harness to Chassis Harness (UD7)





Connector Part Information

Harness Type: Rear Bumper

OEM Connector: 15326829

Service Connector: 13584094

Description: 6-Way F GT 150 Series, Sealed (BK)

Connector Part Information

Harness Type: Chassis

OEM Connector: 15326833

Service Connector: 15326833

Description: 6-Way M GT 150 Series, Sealed (BK)

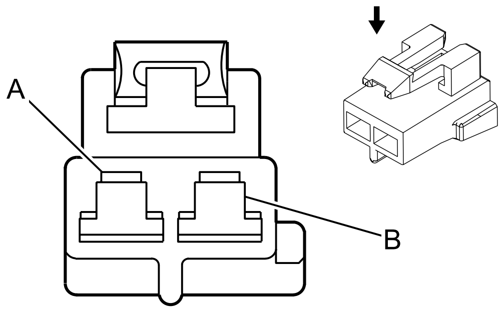
Terminal Part Information

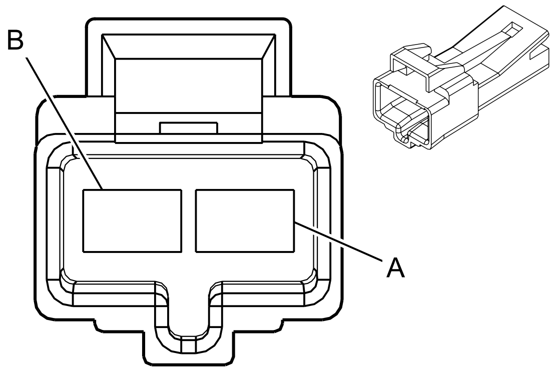
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13578912	J-35616-2A (GY)	J-38125-553	12191819	8	E	1
II	13582291	J-35616-3 (GY)	J-38125-553	15326269	19	E	4

X408 Rear Bumper Harness to Chassis Harness (UD7)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	D-GN	2377	I	-	Right Rear Middle Object Sensor Signal	A	0.5	D-GN	2377	II	-
B	0.5	PU	2378	I	-	Right Rear Corner Object Sensor Signal	B	0.5	PU	2378	II	-
C	0.5	GY	2379	I	-	Object Sensor Low Reference	C	0.5	GY	2379	II	-
D	0.5	D-BU	2374	I	-	Object Sensor Supply Voltage	D	0.5	D-BU	2374	II	-
E	0.5	YE	2375	I	-	Left Rear Corner Object Sensor Signal	E	0.5	YE	2375	II	-
F	0.5	OG	2376	I	-	Left Rear Middle Object Sensor Signal	F	0.5	OG	2376	II	-

X409 Rear HVAC Harness to Body Harness (C36 or C69)





Connector Part Information

Harness Type: Rear HVAC

OEM Connector: 12064749

Service Connector: 13586140

Description: 2-Way F Metri-Pack 480 Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 12064750

Service Connector: 12101935

Description: 2-Way M Metri-Pack 480 Series (BK)

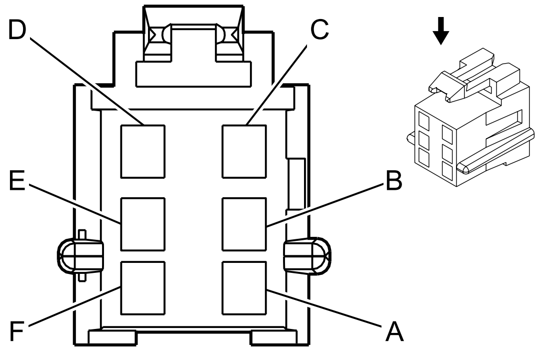
Terminal Part Information

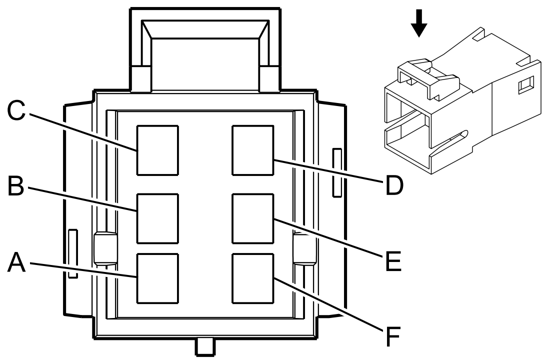
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-40 (BU)	J-38125-11A	12084595	2	B	G
II	Pending	J-35616-40 (BU)	J-38125-11A	12033820	2	B	G

X409 Rear HVAC Harness to Body Harness (C36 or C69)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	5	RD/WH	1740	I	-	Battery Positive Voltage	A	5	RD/WH	1740	II	-
B	5	BK	850	I	-	Ground	B	5 5	BK BK	850 450	II	C36 with C69 ENC

X411 Left Rear Cargo Door Harness to Body Harness (Passenger or Cargo)





Connector Part Information

Harness Type: Left Rear Cargo Door

OEM Connector: 12064752

Service Connector: 15305888

Description: 6-Way F Metri-Pack 280 Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 12064754

Service Connector: 15305872

Description: 6-Way M Metri-Pack 280 Series, Self Lock (BK)

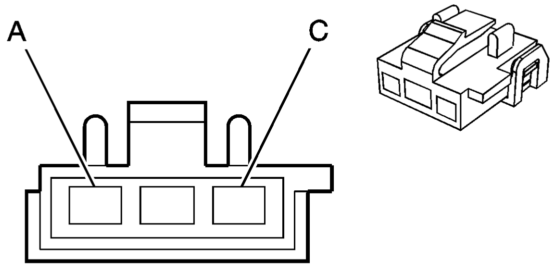
Terminal Part Information

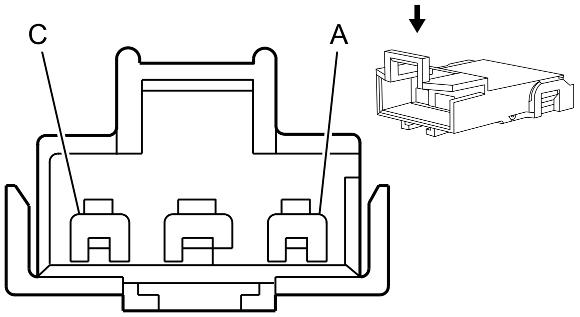
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12034046	2	Pins A–B – C	D
II	Pending	J-35616-5 (PU)	J-38125-11A	Pins A–B – 12034047	2	Pins A–B – C	D

X411 Left Rear Cargo Door Harness to Body Harness (Passenger or Cargo)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	1	TN	1859	I	-	Left Rear Midrange Speaker Output (+)	A	1	TN	1859	II	-
B	1	WH	1959	I	-	Left Rear Midrange Speaker Output (−)	B	1	WH	1959	II	-
C	-	-	-	-	-	Not Occupied	C	-	-	-	-	-
D	5	PU	293	I	C49	Rear Defog Element Control	D	5	PU	293	II	C49
E	3	BK	850	I	C49	Ground	E	3	BK	850	II	C49
F	-	-	-	-	-	Not Occupied	F	-	-	-	-	-

X412 Right Rear Cargo Door to Body Harness (Passenger or Cargo)





Connector Part Information

Harness Type: Right Rear Cargo Door

OEM Connector: 12020014

Service Connector: 12020014

Description: 3-Way F Mixed Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 12045681

Service Connector: 12102634

Description: 3-Way M Metri-Pack 280, 480 Series (BK)

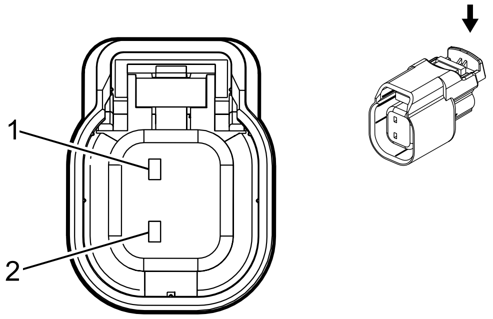
Terminal Part Information

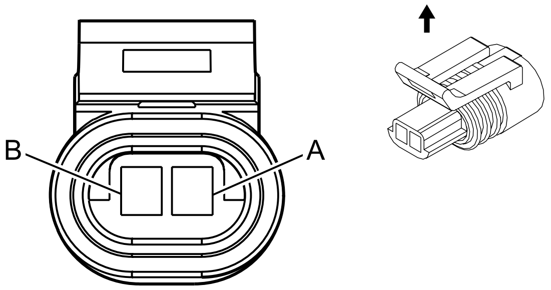
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-4A (PU)	J-38125-11A	12034046	2	E	A
II	Pending	J-35616-40 (BU)	J-38125-11A	12084595	2	B	G
III	Pending	J-35616-4A (PU)	J-38125-11A	12015858	4	F	G
IV	13575715	J-35616-5 (PU)	J-38125-11A	12034047	2	E	A
V	Pending	J-35616-40 (BU)	J-38125-11A	12033820	2	B	G
VI	Pending	J-35616-5 (PU)	J-38125-11A	12084586	4	F	G

X412 Right Rear Cargo Door to Body Harness (Passenger or Cargo)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	BN	2509	I	-	Left Rear Park Lamps Control	A	0.5	BN	2509	-	-
B	5	PU	293	-	C49	Rear Defog Element Control	B	5	PU	293	-	C49
C	3 0.5	BK BK	1050 1050	I	C49 w C49	Ground Ground	C	3	BK	1050	-	-

X413 Chassis Harness to Left Rear Wheel Speed Sensor Jumper Harness (JL4)





Connector Part Information

Harness Type: Chassis

OEM Connector: 13828712

Service Connector: Pending

Description: 2-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Left Rear Wheel Speed Sensor Jumper

OEM Connector: 12162193

Service Connector: 88987993

Description: 2-Way F Metri-Pack 150.2 Series, Sealed (BK)

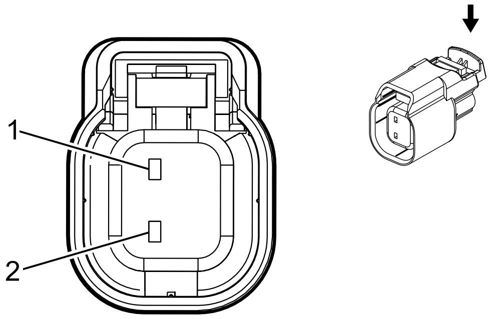
Terminal Part Information

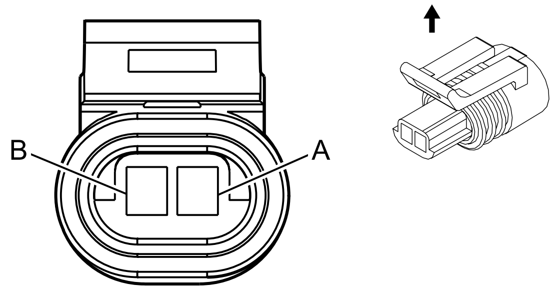
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray/Position	Core Crimp	Insulation Crimp
I	13578914	J-35616-2A (GY)	J-38125-11A	7116-4102-08	9/7	E	1
II	Service by Harness – See Part Catalog	J-35616-14	J-38125-559	12124075	5/10	E	C

X413 Chassis Harness to Left Rear Wheel Speed Sensor Jumper Harness (JL4)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	OG	885	I	-	Low Reference	A	0.5	BK	885	II	-
B	0.5	TN	884	I	-	Left Rear Wheel Speed Sensor Signal	B	0.5	RD	884	II	-

X414 Chassis Harness to Right Rear Wheel Speed Sensor Jumper Harness (JL4)





Connector Part Information

Harness Type: Chassis

OEM Connector: 13828712

Service Connector: Pending

Description: 2-Way F 1.5 Series, Sealed (BK)

Connector Part Information

Harness Type: Right Rear Wheel Speed Sensor Jumper

OEM Connector: 12162193

Service Connector: 88987993

Description: 2-Way F Metri-Pack 150.2 Series, Sealed (BK)

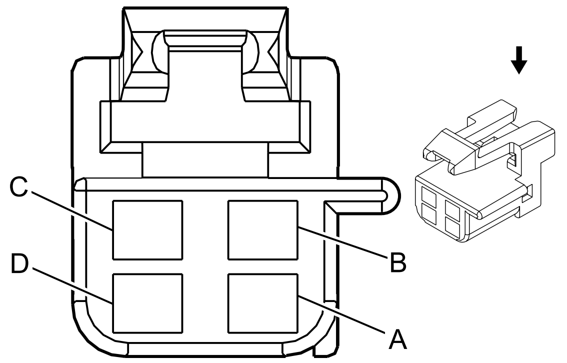
Terminal Part Information

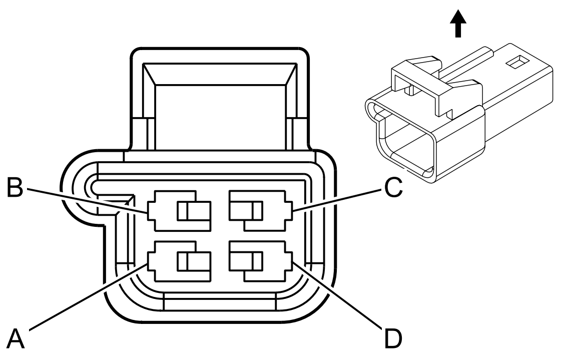
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray/Position	Core Crimp	Insulation Crimp
I	13578914	J-35616-2A (GY)	J-38125-11A	7116-4102-08	9/7	E	1
II	Service by Harness – See Part Catalog	J-35616-14	J-38125-559	12124075	5/10	E	C

X414 Chassis Harness to Right Rear Wheel Speed Sensor Jumper Harness (JL4)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	WH	883	I	-	Low Reference	A	0.5	BN	883	II	-
B	0.5	BN	882	I	-	Right Rear Wheel Speed Sensor Signal	B	0.5	WH	882	II	-

X415 Roof Center Speaker Harness to Body Harness (Passenger or Cargo)





Connector Part Information

Harness Type: Roof Center Speaker
OEM Connector: 12064760
Service Connector: 13584477
Description: 4-Way F Metri-Pack 150 Series (BK)

Connector Part Information

Harness Type: Body
OEM Connector: 12065658
Service Connector: 12085206
Description: 4-Way M Metri-Pack 150 Series (BK)

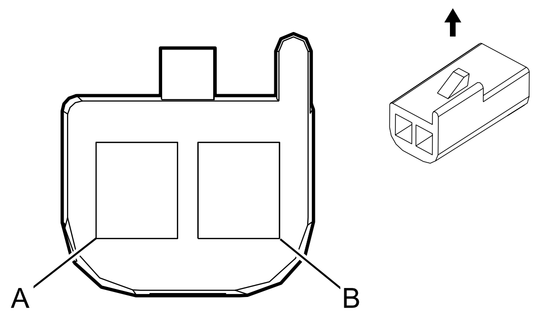
Terminal Part Information

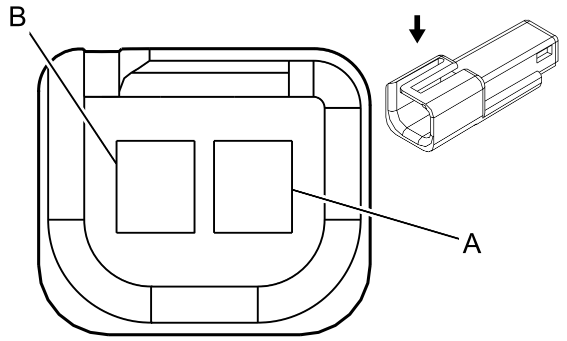
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-14 (GN)	J-38125-12A	15326030	2	E	A
II	13505668	J-35616-3 (GY)	J-38125-12A	12047581	2	E	A

X415 Roof Center Speaker Harness to Body Harness (Passenger or Cargo)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	1	WH	1959	I	-	Left Rear Midrange Speaker Output (−)	A	1	WH	1959	II	-
B	1	TN	1859	I	-	Left Rear Midrange Speaker Output (+)	B	1	TN	1859	II	-
C	1	OG	1955	I	-	Right Rear Midrange Speaker Output (−)	C	1	OG	1955	II	-
D	1	TN	1855	I	-	Right Rear Midrange Speaker Output (+)	D	1	TN	1855	II	-

X417 Dome Lamp Harness to Body Harness (Cargo without YF7)





Connector Part Information

Harness Type: Dome Lamp

OEM Connector: 12047662

Service Connector: 12085535

Description: 2-Way F Metri-Pack 150 Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 12048457

Service Connector: 13584278

Description: 2-Way M Metri-Pack 150 Series (BK)

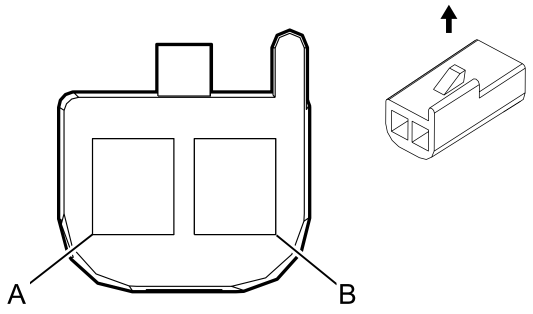
Terminal Part Information

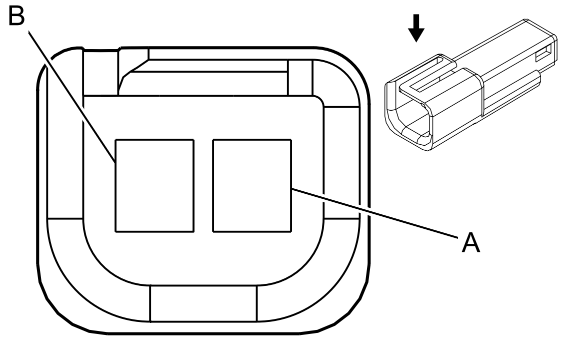
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pin A– Pending	J-35616-14 (GN)	J-38125-12A	Pin A– 15326030	2	Pin A– E	A
II	13505668	J-35616-3 (GY)	J-38125-12A	12047581	2	E	A

X417 Dome Lamp Harness to Body Harness (Cargo without YF7)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	D-BU/WH	149	I	-	Courtesy Lamp Control	A	0.8	D-BU/WH	149	II	-
B	0.5	BK	850	I	-	Ground	B	0.5	BK	850	II	-

X419 Center High Mounted Stop Lamp Harness to Body Harness (Passenger or Cargo)





Connector Part Information

Harness Type: Center High Mounted Stop Lamp

OEM Connector: 12047662

Service Connector: 12085535

Description: 2-Way F Metri-Pack 150 Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 12048457

Service Connector: 13584278

Description: 2-Way M Metri-Pack 150 Series (BK)

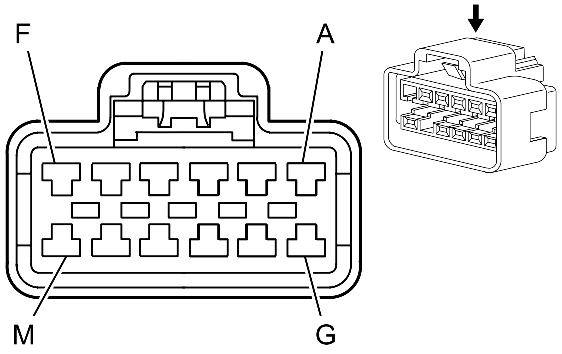
Terminal Part Information

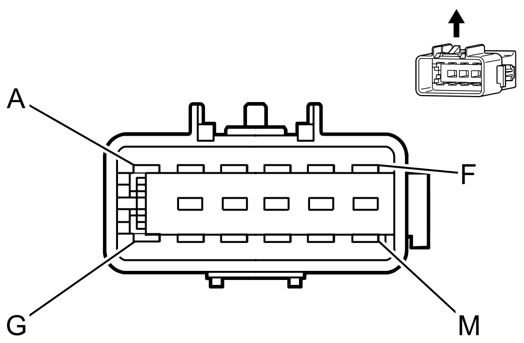
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 12047662	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
II	13505668	J-35616-3 (GY)	J-38125-12A	12047581	2	E	A

X419 Center High Mounted Stop Lamp Harness to Body Harness (Passenger or Cargo)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	L-BU	1320	I	-	Center High Mounted Stop Lamp (CHMSL) Control	A	0.8	L-BU	1320	II	-
B	0.8	BK	850	I	-	Ground	B	0.8	BK	850	II	-

X420 Headliner Harness to Body Harness (Passenger or Cargo)





Connector Part Information

Harness Type: Headliner

OEM Connector: 15326110

Service Connector: 15326110

Description: 12-Way F GT 280 Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 15326942

Service Connector: 15326942

Description: 12-Way M GT 280 Series (BK)

Terminal Part Information

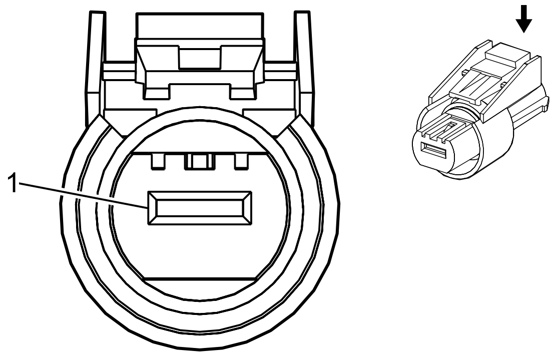
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575753	J-35616-4A (PU)	J-38125-553	15304711	8	Pins: A-B, H-J – 2	A
II	13575507	J-35616-5 (PU)	J-38125-553	Pins: A–B, H–J – 15304724	8	Pins: A–B, H–J – 2	A

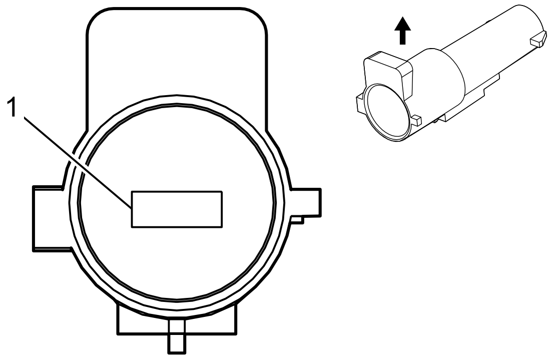
X420 Headliner Harness to Body Harness (Passenger or Cargo)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.8	D-BU/WH	149	I	-	Courtesy Lamp Control	A	0.8	D-BU/WH	149	II	-
B	0.8	D-BU/WH	149	I	-	Courtesy Lamp Control	B	0.8	D-BU/WH	149	II	-
C	0.35	BN/WH	230	I	C69	Instrument Panel Lamps Dimming Control	C	0.35	BN/WH	230	II	C69
D	0.5	WH	1924	I	C69	Auxiliary Blower Motor High Control	D	0.5	WH	1924	II	C69
E	0.5	OG	1925	I	C69	Auxiliary Blower Motor Medium Control	E	0.5	OG	1925	II	C69
F	0.5	D-BU	1926	I	C69	Auxiliary Blower Motor Low Control	F	0.5	D-BU	1926	II	C69
G	0.35	BN	341	I	C69	Ignition Voltage	G	0.35	BN	341	II	C69
H	0.8	BK	1050	I	-	Ground	H	0.8	BK	1050	II	-
J	0.8	OG	1732	I	-	Courtesy Lamp Control	J	0.8	OG	1732	II	-

K	0.5	BN	5263	I	C69	Rear Auxiliary Air Temperature Door Control	K	0.5	BN	5263	II	C69
L	0.5	PU/WH	5264	I	C69	Rear Auxiliary Mode Door Control	L	0.5	PU/WH	5264	II	C69
M	0.5	PK/BK	5265	I	C69	Rear Auxiliary Blower Motor Switch Control	M	0.5	PK/BK	5265	II	C69

X460 Chassis to Harness Trailer Provision (Trailer Cap) (Cutaway with NE7 and UY7)





Connector Part Information

Harness Type: Chassis

OEM Connector: 15326120

Service Connector: 15326120

Description: 1-Way F Metri-Pack 800 Series, Sealed (BK)

Connector Part Information

Harness Type: Trailer Cap

OEM Connector: 15326119

Service Connector: 89046877

Description: 1-Way M Metri-Pack 800 Series, Sealed (BK)

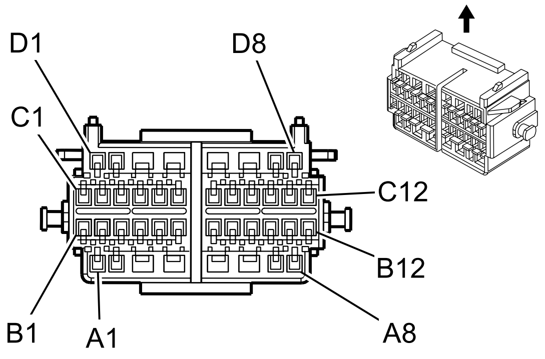
Terminal Part Information

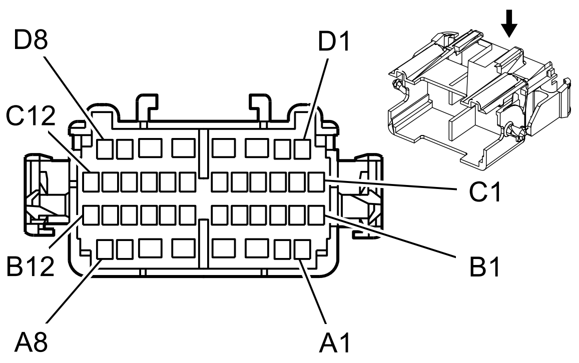
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Service by Connector Assembly - 15326120	J-35616-44 (YE)	J-38125-11A	Not Available	Not Available	Not Available	Not Available
II	Service by Connector Assembly - 89046877	J-35616-14 (GN)	No Tool Required	Not Available	Not Available	Not Available	Not Available

X460 Chassis to Harness Trailer Provision (Trailer Cap) (Cutaway with NE7 and UY7)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
1	8	WH	22	I	-	Ground	1	8	WH	22	II	-

X500 Driver Door Harness to Body Harness





Connector Part Information

Harness Type: Driver Door

OEM Connector: 15448129

Service Connector: 89046969

Description: 40-Way F GT 150 280 Series (BK)

Connector Part Information

Harness Type: Body

OEM Connector: 15416976

Service Connector: Service by Harness - See Part Catalog

Description: 40-Way M GT 150 280 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575735	J-35616-2A (GY)	J-38125-553	12191812	19	Pins: A1, A8, B1–B4, D7–D8 – E	C
II	Pins: A5 (AU3 without DE5, DE7 or A31), A6 – 13575753	J-35616-4A (PU)	J-38125-553	Pins: A5 (AU3 without DE5, DE7 or A31), A6 – 15304711	8	Pins: A5 (AU3 without DE5, DE7 or A31), A6 – E	A
III	13575502	J-35616-3 (GY)	J-38125-553	15304702	19	Pins: A1, A6, B1–B4 – E	C
IV	13575510	J-35616-5 (PU)	J-38125-553	15304724	8	A	D

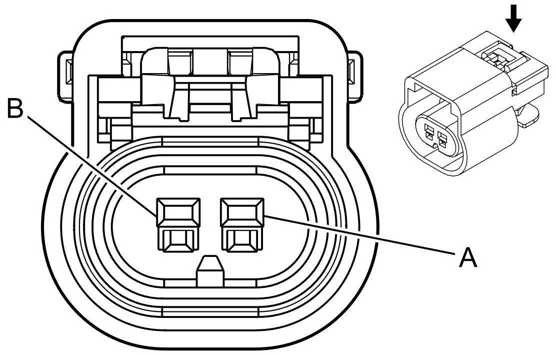
X500 Driver Door Harness to Body Harness

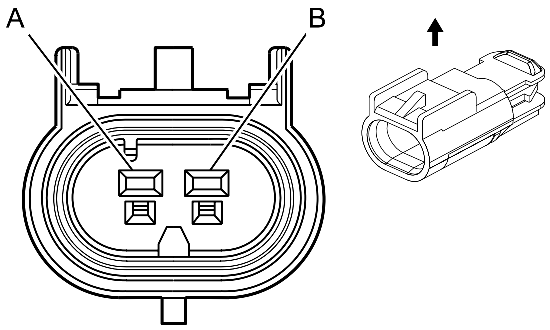
Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A1	0.35	TN	126	I I II	-	Left Front Door Open Switch Signal	A1	0.35	TN	126	III III	-
A2–A4	-	-	-	-	-	Not Occupied	A2–A4	-	-	-	-	-
A5	0.35 3	BK BK	450 450	I II	AU3 without DE5, DE7 or A31 AU3 with DE5, DE7 or A31	Ground Ground	A5	3	BK	450	III IV	-

					A31							
A6	0.35 0.35	BN/WH BN/WH	230 230	I II	AU3 A31	Instrument Panel Lamps Dimming Control Instrument Panel Lamps Dimming Control	A6	0.35	BN/WH	230	III	AU3 or A31
A7	0.8	OG	2267	I II	DE5 or DE7	Mirror Heating Element Control	A7	0.8	OG	2267	III	DE5 or DE7
A8	0.35	PU/WH	889	I II	DE5 or DE7	Passenger Mirror Motor Down Control	A8	0.5	PU/WH	889	III	DE5 or DE7
B1	0.35	OG/BK	781	I I	AU3	Driver Door Lock Switch Unlock Signal	B1	0.35	OG/BK	781	III III	AU3
B2	0.35	PK/BK	780	I I	AU3	Driver Door Lock Switch Lock Signal	B2	0.35	PK/BK	780	III III	AU3
B3	0.35	GY/BK	745	I I	-	Left Front Door Ajar Switch Signal	B3	0.35	GY/BK	745	III III	-
B4	0.35	BK	450	I I	-	Ground	B4	0.35	BK	450	III III	-
B5–B6	-	-	-	-	-	Not Occupied	B5–B6	-	-	-	-	-
B7	0.8	TN	694	I I	AU3	Driver Door Lock Actuator Unlock Control	B7	0.8	TN	694	III III	AU3
B8	0.8	GY	295	I I	AU3	Door Lock Actuator Lock Control	B8	1	GY	295	III III	AU3
B9–B11	-	-	-	-	-	Not Occupied	B9–B11	-	-	-	-	-
B12	0.8	D-BU	1857	I I I	-	Left Front Midrange Speaker Output (+)	B12	0.8	D-BU	1857	III III III	-
C1	0.5	PU/WH	6628	I I	ASF	Low Reference	C1	0.5	PU/WH	6628	III III	ASF
C2	0.5	WH	2132	I I	ASF	Side Impact Sensing Module – Left – Signal	C2	0.5	WH	2132	III III	ASF
C3–C6	-	-	-	-	-	Not Occupied	C3–C6	-	-	-	-	-
C7	0.5	L-BU/WH	1314	I I	DE5 or DE7	Left Front Turn Signal Lamp Control	C7	0.5	L-BU/WH	1314	III III	DE5 or DE7
C8	0.5	RD/WH	4340	I I	DE5 or DE7	Battery Positive Voltage	C8	0.5	RD/WH	4340	III III	DE5 or DE7

C9–C11	-	-	-	-	-	Not Occupied	C9–C11	-	-	-	-	-
C12	0.8	L-BU	1957	I I I	-	Left Front Midrange Speaker Output (−)	C12	0.8	L-BU	1957	III III III	-
D1–D3	-	-	-	-	-	Not Occupied	D1–D3	-	-	-	-	-
D4	3	TN	167	I II	A31	Power Window Master Switch Right Front Down Signal	D4	3	TN	167	III IV	A31
D5	3	L-BU	166	I II	A31	Power Window Master Switch Right Front Up Signal	D5	3	L-BU	166	III IV	A31
D6	3	D-GN	1001	I II	A31	RAP Control	D6	3	D-GN	1001	III IV	A31
D7	0.35	BN/WH	1498	I II	DE5 or DE7	Passenger Mirror Motor Left/Down Control	D7	0.5	BN/WH	1498	III IV	DE5 or DE7
D8	0.35	OG/WH	881	I II	DE5 or DE7	Passenger Mirror Motor Right Control	D8	0.5	OG/WH	881	III IV	DE5 or DE7

X501 Driver Side Impact Sensor Jumper Harness to Driver Door Harness (ASF)





Connector Part Information

Harness Type: Driver Side Impact Sensor Jumper

OEM Connector: 13510085

Service Connector: 13580114

Description: 2-Way F GT 150 Series (BK)

Connector Part Information

Harness Type: Driver Door

OEM Connector: 13510099

Service Connector: 13580103

Description: 2-Way M GT 150 Series, Sealed (BK)

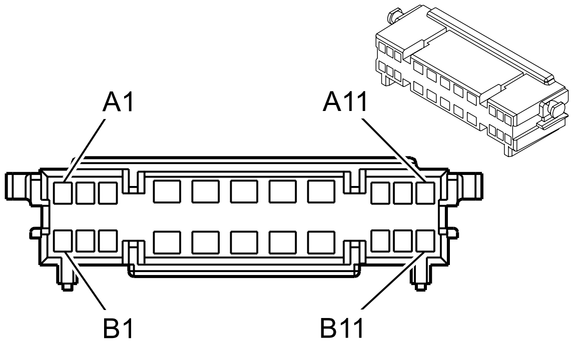
Terminal Part Information

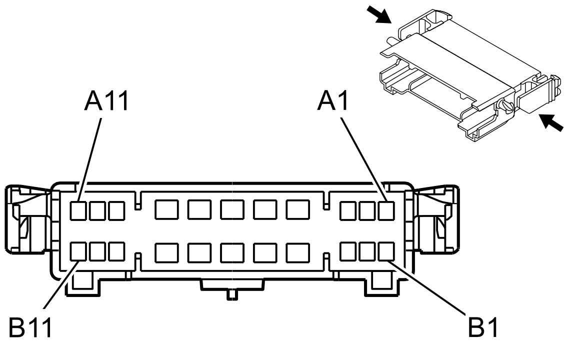
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575413	J-35616-2A (GY)	J-38125-553	12191819	8	E	1
II	13575398	J-35616-3 (GY)	J-38125-553	15326269	19	E	4

X501 Driver Side Impact Sensor Jumper Harness to Driver Door Harness (ASF)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	PU/WH	6628	I	-	Low Reference	A	0.5	PU/WH	6628	II	-
B	0.5	WH	2132	I	-	Side Impact Sensing Module– Left– Signal	B	0.5	WH	2132	II	-

X600 Passenger Door Harness to Body Harness





Connector Part Information

Harness Type: Passenger Door

OEM Connector: 15326063

Service Connector: 15326063

Description: 22-Way F GT 150, 280 (GY)

Connector Part Information

Harness Type: Body

OEM Connector: 15326064

Service Connector: 15326064

Description: 22-Way M GT 150, 280 (GY)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575735	J-35616-2A (GY)	J-38125-553	12191812	19	Pins: A1–A3, B1–B2 – C	A
II	13575756	J-35616-4A (PU)	J-38125-553	15304713	19	F	D
III	13575753	J-35616-4A (PU)	J-38125-553	15304711	8	Pin A5 – 2	A
IV	13575502	J-35616-3 (GY)	J-38125-553	15304702	19	Pins: A1–A3, B1–B2 – 2	4
V	13575510	J-35616-5 (PU)	J-38125-553	15304724	8	A	D
VI	13575507	J-35616-5 (PU)	J-38125-553	Pin A5 – 15304724	8	Pin A5 – 2	A

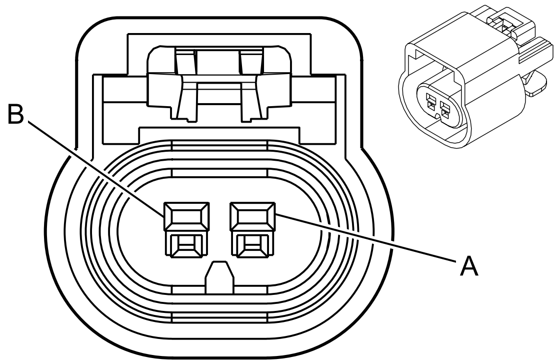
X600 Passenger Door Harness to Body Harness

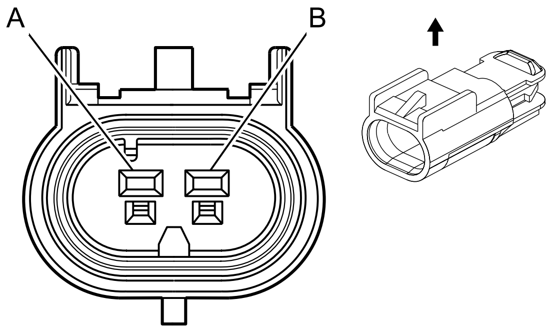
Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A1	0.8	OG	1853	I I III	-	Right Front Midrange Speaker Output (+)	A1	0.8	OG	1853	IV IV VI	-
A2	0.8	TN	294	I I III	AU3	Door Lock Actuator Unlock Control	A2	0.8	TN	294	IV IV VI	AU3
A3	0.8	OG	2267	I I III	DE5 or DE7	Mirror Heating Element Control	A3	0.8	OG	2267	IV IV VI	DE5 or DE7

				III							VI	
A4	3	L-BU	166	I I II III	A31	Power Window Master Switch Right Front Up Signal	A4	3	L-BU	166	IV IV V VI	A31
A5	0.8	BK	1850	I I III	-	Ground	A5	0.8	BK	1850	IV IV VI	-
A6	0.35 0.35	BN/WH BN/WH	1498 1498	I I III	DE5 or DE7 DE5 or DE7	Passenger Mirror Motor Left/Down Control Passenger Mirror Motor Left/Down Control	A6	0.5	BN/WH	1498	IV IV VI	DE5 or DE7
A7	0.35	OG/WH	881	I I III	DE5 or DE7	Passenger Mirror Motor Right Control	A7	0.5	OG/WH	881	IV IV VI	DE5 or DE7
A8	0.35	TN/WH	746	I I III	-	Right Front Door Ajar Switch Signal	A8	0.35	TN/WH	746	IV IV VI	-
A9	0.35	BK	1850	I I III	-	Ground	A9	0.35	BK	1850	IV IV VI	-
A10	0.5	D-GN	2134	I I III	-	Side Impact Sensing Module – Right – Signal	A10	0.5	D-GN	2134	IV IV VI	-
A11	0.35	L-BU	244	I I III	AU3	Passenger Door Lock Switch Lock Control	A11	0.35	L-BU	244	IV IV VI	AU3
B1	0.8	D-GN	1953	I I II III	-	Right Front Midrange Speaker Output (−)	B1	0.8	D-GN	1953	IV IV V VI	-
B2	0.8	GY	295	I I II III	AU3	Door Lock Actuator Lock Control	B2	1	GY	295	IV IV V VI	AU3
B3	0.5	D-BU/WH	1315	I I II III	DE5 or DE7	Right Front Turn Signal Lamp Control	B3	0.5	D-BU/WH	1315	IV IV V VI	DE5 or DE7
B4	3	TN	167	I I II	A31	Power Window Master Switch Right Front Down Signal	B4	3	TN	167	IV IV V	A31

				II III							V VI	
B5	3	D-GN	1001	I I II III	A31	RAP Control	B5	3	D-GN	1001	IV IV V VI	A31
B6	0.35 0.35	BN/WH BN/WH	230 230	I I II III	AU3 A31	Instrument Panel Lamps Dimming Control Instrument Panel Lamps Dimming Control	B6	0.35	BN/WH	230	IV IV V VI	AU3 or A31
B7	0.35	PU/WH	889	I I II III	DE5 or DE7	Passenger Mirror Motor Down Control	B7	0.5	PU/WH	889	IV IV V VI	DE5 or DE7
B8	0.35	L-GN	1177	I I II III	-	Right Front Door Open Switch Signal	B8	0.35	L-GN	1177	IV IV V VI	-
B9	-	-	-	-	-	Not Occupied	B9	-	-	-	-	-
B10	0.5	WH/BK	6629	I I II III	ASF	Low Reference	B10	0.5	WH/BK	6629	IV IV V VI	ASF
B11	0.35	D-BU	245	I I II III	AU3	Passenger Door Lock Switch Unlock Control	B11	0.35	D-BU	245	IV IV V VI	AU3

X601 Passenger Side Impact Sensor Jumper Harness to Passenger Door Harness (ASF)





Connector Part Information

Harness Type: Passenger Side Impact Sensor Jumper

OEM Connector: 13510085

Service Connector: 13580114

Description: 2-Way F GT 150 Series Sealed (BK)

Connector Part Information

Harness Type: Passenger Door

OEM Connector: 13510099

Service Connector: 13580103

Description: 2-Way M GT 150 Series, Sealed (BK)

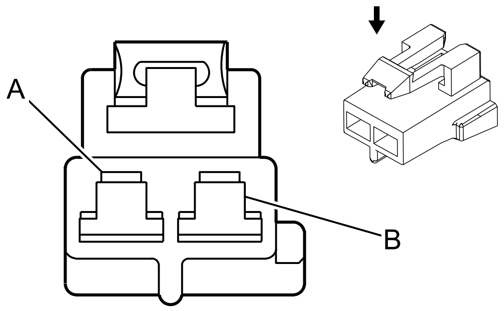
Terminal Part Information

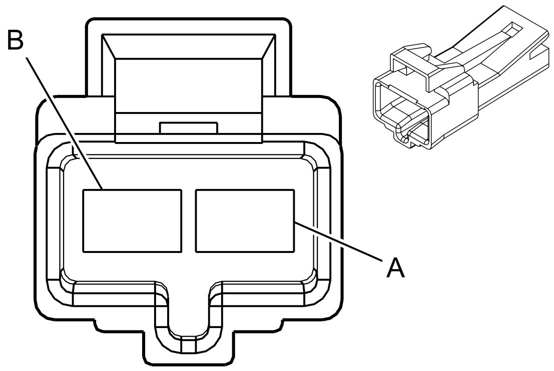
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	13575413	J-35616-2A (GY)	J-38125-553	12191819	8	E	1
II	13575398	J-35616-3 (GY)	J-38125-553	15326269	19	E	4

X601 Passenger Side Impact Sensor Jumper Harness to Passenger Door Harness (ASF)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	0.5	PU/WH	6628	I	-	Low Reference	A	0.5	WH/BK	6629	II	-
B	0.5	WH	2132	I	-	Side Impact Sensing Module– Right– Signal	B	0.5	D-GN	2134	II	-

X901 Defogger Jumper Harness to Left Rear Cargo Door Harness (C49 with A12)





Connector Part Information

Harness Type: Rear Window Defogger Jumper

OEM Connector: 12064749

Service Connector: 13586140

Description: 2-Way F Metri-Pack 480 Series (BK)

Connector Part Information

Harness Type: Left Rear Cargo Door

OEM Connector: 12064750

Service Connector: 12101935

Description: 2-Way M Metri-Pack 480 Series (BK)

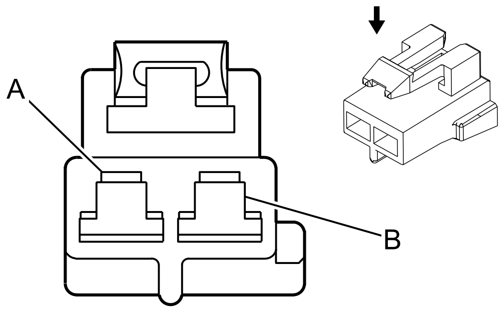
Terminal Part Information

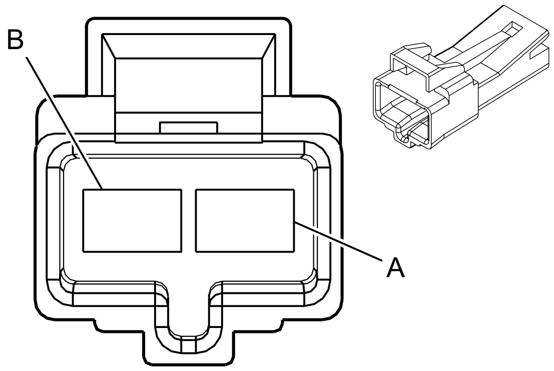
Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-40 (BU)	J-38125-11A	12084595	2	Pin A– B	G
II	Pending	J-35616-40 (BU)	J-38125-11A	12033820	2	Pin A– B	G

X901 Defogger Jumper Harness to Left Rear Cargo Door Harness (C49 with A12)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	5	PU	293	I	-	Rear Defog Element Control	A	5	PU	293	II	-
B	3	BK	850	I	-	Ground	B	3	BK	850	II	-

X902 Rear Window Defogger Jumper Harness to Right Rear Cargo Door Harness (C49 or A12)





Connector Part Information

Harness Type: Rear Window Defogger Jumper

OEM Connector: 12064749

Service Connector: 13586140

Description: 2-Way F Metri-Pack 480 Series (BK)

Connector Part Information

Harness Type: Right Rear Cargo Door

OEM Connector: 12064750

Service Connector: 12101935

Description: 2-Way M Metri-Pack 480 Series (BK)

Terminal Part Information

Terminal Type ID	Terminated Lead	Diagnostic Test Probe	Terminal Removal Tool	Service Terminal	Tray	Core Crimp	Insulation Crimp
I	Pending	J-35616-40 (BU)	J-38125-11A	12084595	2	Pin A– B	G
II	Pending	J-35616-40 (BU)	J-38125-11A	12033820	2	Pin A– B	G

X902 Rear Window Defogger Jumper Harness to Right Rear Cargo Door Harness (C49 or A12)

Pin	Size	Color	Circuit	T Type ID	Option	Function	Pin	Size	Color	Circuit	T Type ID	Option
A	5	PU	293	I	-	Rear Defog Element Control	A	5	PU	293	II	-
B	3	BK	1050	I	-	Ground	B	3	BK	1050	II	-

Description and Operation

Retained Accessory Power Description and Operation

Retained Accessory Power (RAP)

The retained accessory power (RAP) system allows specific vehicle functions to operate for a specific amount of time after the ignition switch is turned OFF. The BCM monitors the ignition switch position, battery condition, and each door ajar/open switch status to determine whether RAP should be initiated or terminated. RAP is controlled with 2 different methods; serial data and relay control. Some modules receive a RAP message over the serial data circuits. Serial data controlled RAP is deactivated as required by their modules RAP power mode operation. Other subsystems are activated directly by the BCM through a RAP relay. Components and systems that are active in RAP are also activated anytime the ignition is any position other than OFF regardless of the door switch signals. The RAP relay is located in the body fuse block, is grounded at G302, and is controlled by the rap relay coil control circuit from the BCM.

Relay Controlled RAP

The BCM keeps the RAP relay energized during all power modes, except Off-Awake and Crank. The relay is also energized for approximately 10 minutes after shutting the ignition OFF and removing the key, providing no door is opened.

Relay controlled RAP will end when one of the following conditions is met:

- The BCM receives an input from any door ajar switch indicating the opening of any door after the ignition key is out of the ignition.

Important: If the BCM is receiving any door ajar signal from those switches when the ignition key is turned OFF, RAP will not initiate.

- The BCM internal timer for the RAP expires after approximately 10 minutes.
- The BCM detects a decrease in battery capacity below a prescribed limit.

The power window system is powered by the RAP relay during the retained accessory power (RAP) power mode.

Serial Data Controlled RAP

RAP systems controlled by serial data are as follows:

Radio

Radio RAP activation/termination is the same as relay operation with 1 exception; the only door switch that will turn off the radio during RAP is the driver door open switch.

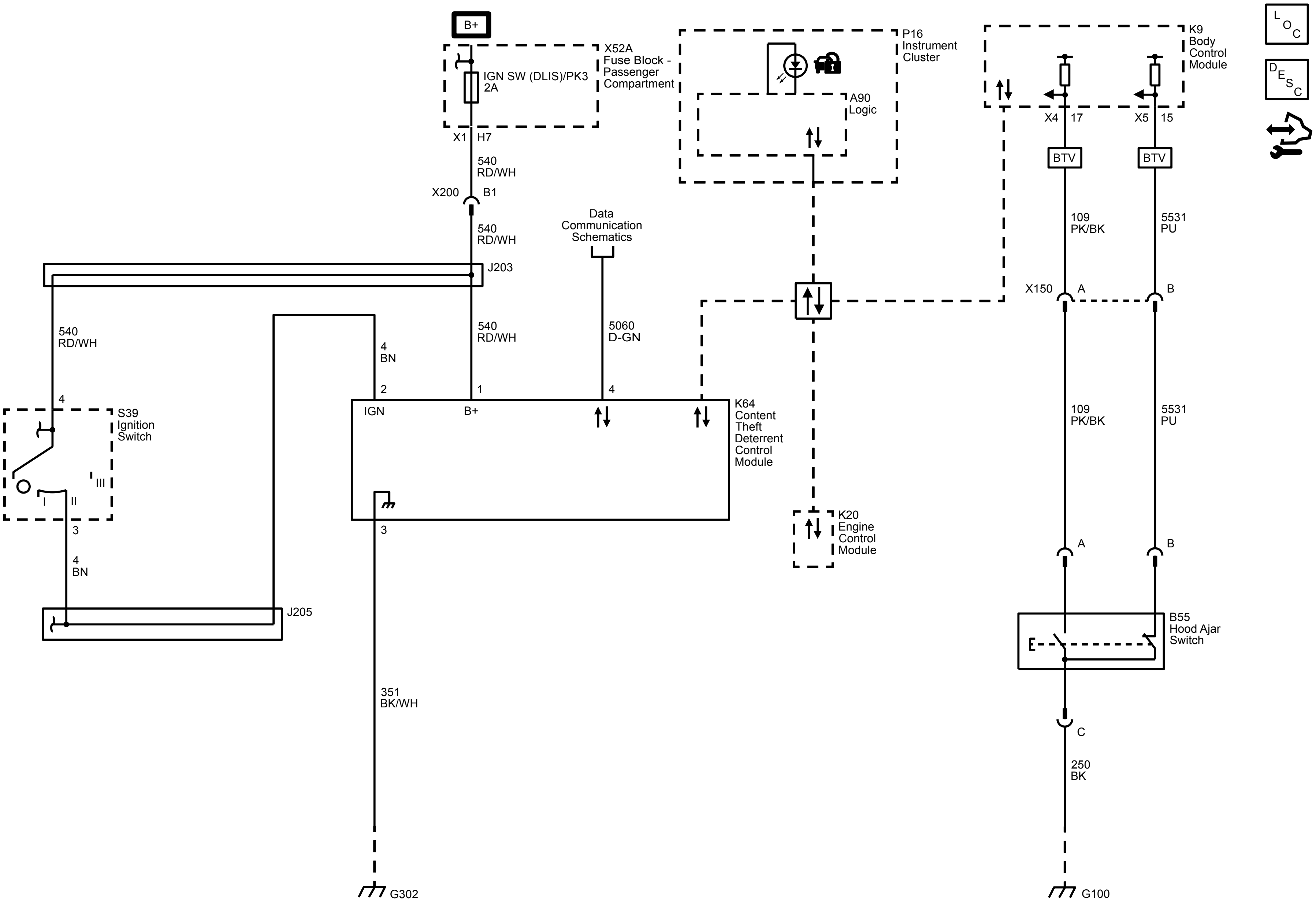
Safety and Security

Immobilizer

Schematic and Routing Diagrams

Immobilizer Schematics

Immobilizer



B+
X52A Fuse Block - Passenger Compartment
IGN SW (DLIS)/PK3 2A
X1 H7
540 RD/WH
X200 B1
540 RD/WH
J203
P16 Instrument Cluster
A90 Logic
K9 Body Control Module
X4 17
X5 15
BTV
BTV
109 PK/BK
5531 PU
L O C
D E S C
Data Communication Schematics
5060 D-GN
X150 A B
540 RD/WH
4 BN
540 RD/WH
4
S39 Ignition Switch
I II III
3
4 BN
J205
2 1 4
IGN B+
K64 Content Theft Deterrent Control Module
3
K20 Engine Control Module
109 PK/BK
5531 PU
A B
B55 Hood Ajar Switch
C
250 BK
351 BK/WH
G302
G100

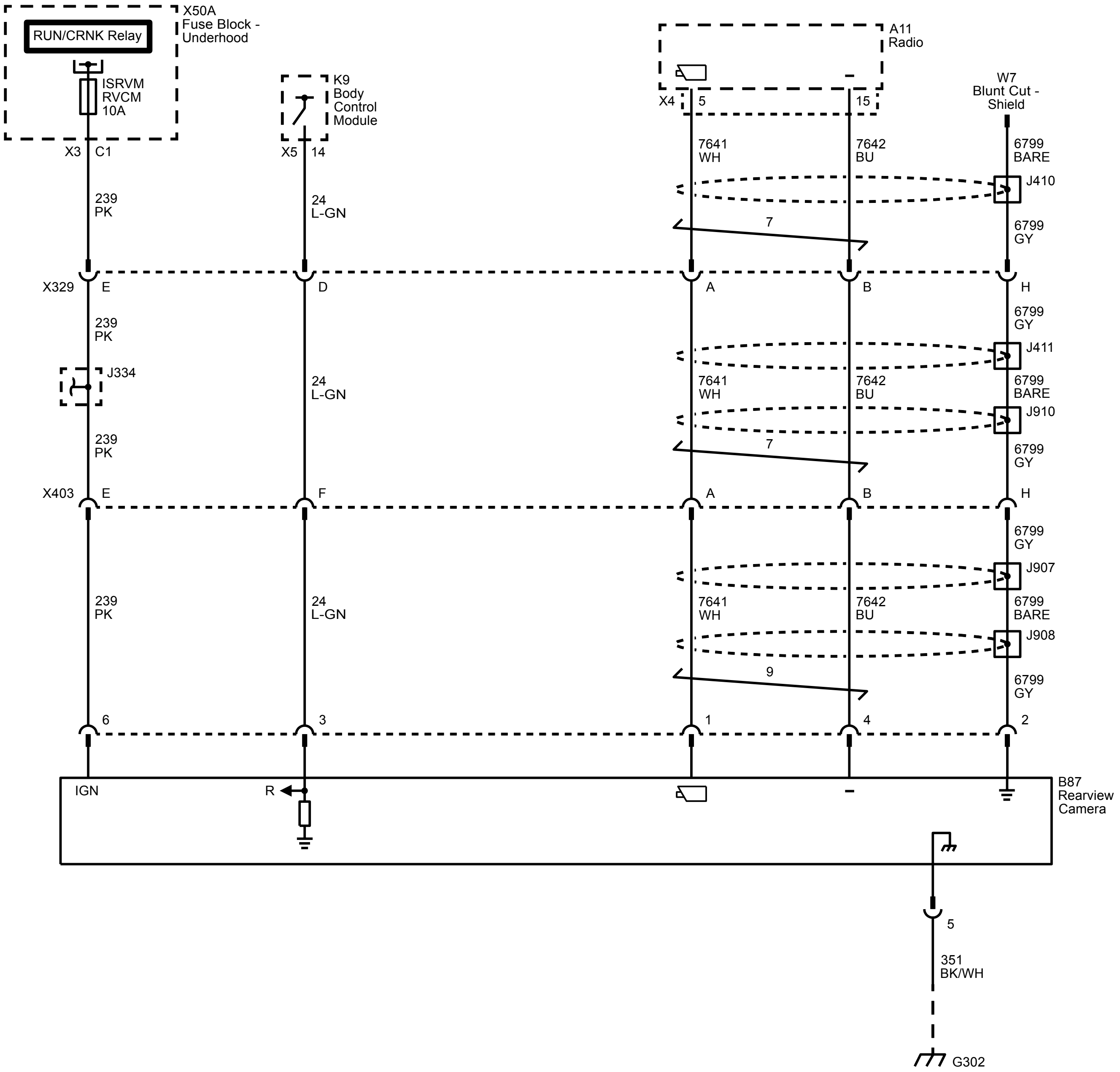
Safety and Security

Object Detection and Pedestrian Protection

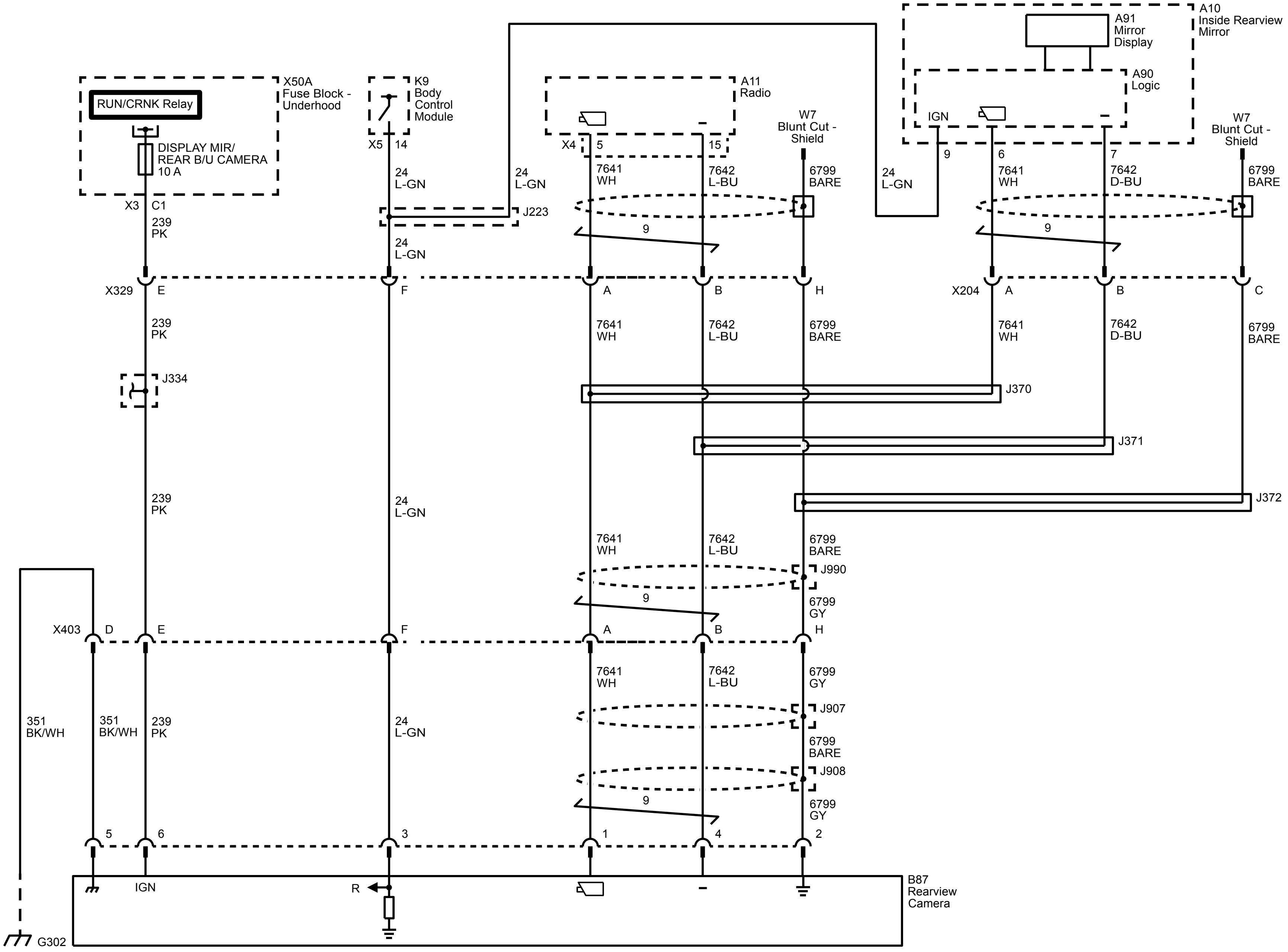
Schematic and Routing Diagrams

Object Detection Schematics

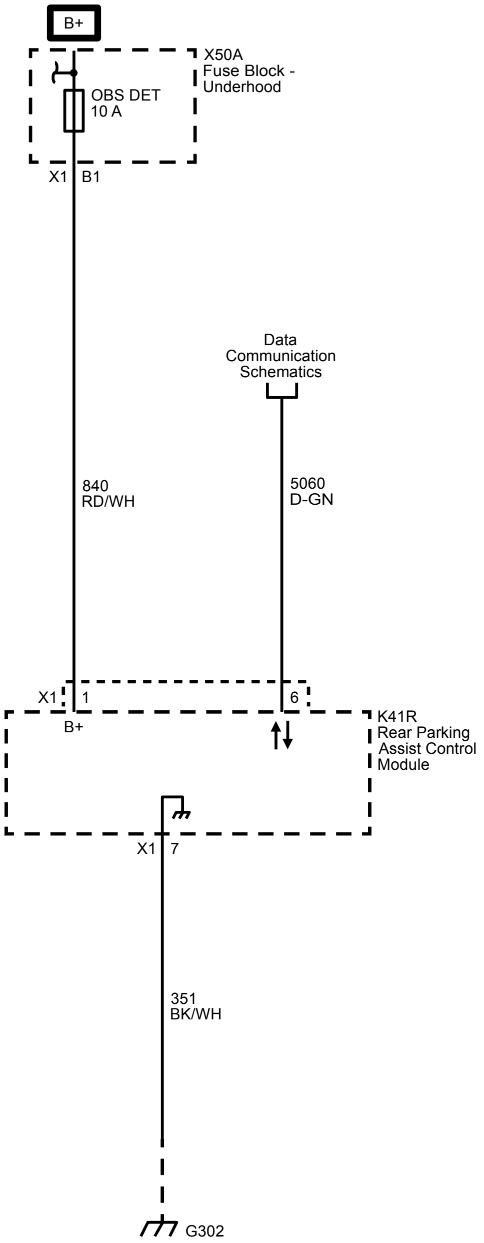
Rear Vision Camera (with UYS)


X50A
Fuse Block - Underhood
RUN/CRNK Relay
ISRVM RVCM 10A
X3 C1
239 PK
K9
Body Control Module
X5 14
24 L-GN
A11
Radio
X4 5
15
7641 WH
7642 BU
7
W7
Blunt Cut - Shield
6799 BARE
J410
6799 GY
X329 E
D
A
B
H
239 PK
J334
J411
J910
7641 WH
7642 BU
7
X403 E
F
A
B
H
239 PK
24 L-GN
6799 GY
J907
6799 BARE
J908
9
6
3
1
4
2
IGN
R
B87
Rearview Camera
5
351 BK/WH
G302

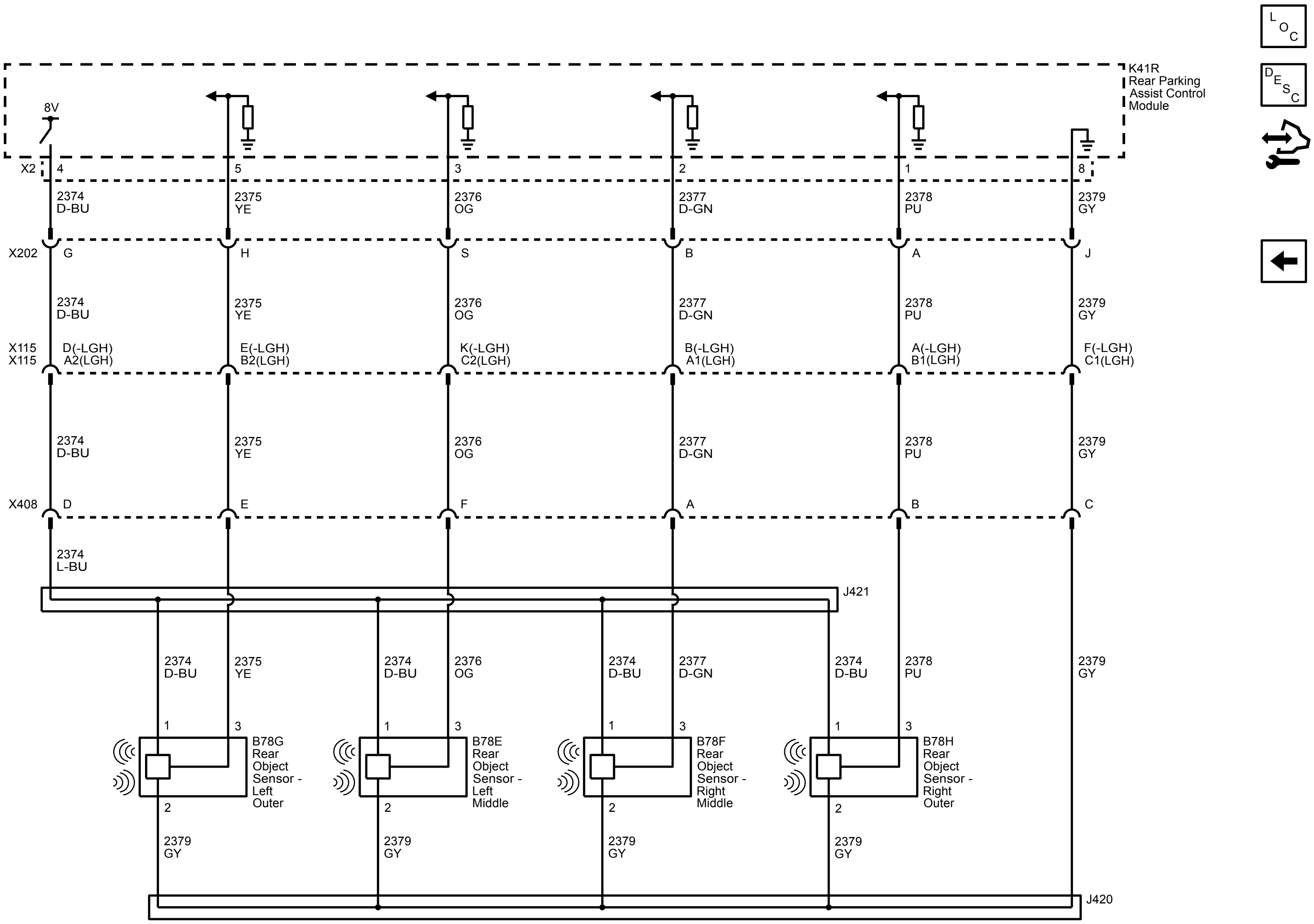
Rear Vision Camera (without UYS)


RUN/CRNK Relay
X50A
Fuse Block - Underhood
DISPLAY MIR/
REAR B/U CAMERA
10 A
X3
C1
239
PK
K9
Body
Control
Module
X5
14
24
L-GN
J223
A11
Radio
X4
5
15
7641
WH
7642
L-BU
W7
Blunt Cut - Shield
6799
BARE
9
A10
Inside Rearview Mirror
A91
Mirror
Display
A90
Logic
IGN
9
6
7
7642
D-BU
X329
E
F
A
B
H
X204
C
J334
J370
J371
J372
J990
6799
GY
X403
D
351
BK/WH
J907
J908
1
2
3
4
5
6
R
B87
Rearview
Camera
G302

Rear Object Sensing Power, Ground, and Serial Data (UD7)


B+
X50A
Fuse Block - Underhood
OBS DET
10 A
X1
B1
Data Communication Schematics
840
RD/WH
5060
D-GN
X1
1
6
B+
K41R
Rear Parking Assist Control Module
X1
7
351
BK/WH
G302

Rear Object Sensors (UD7)


K41R
Rear Parking
Assist Control
Module
8V
X2
4
5
3
2
1
8
2374
D-BU
2375
YE
2376
OG
2377
D-GN
2378
PU
2379
GY
X202
G
H
S
B
A
J
X115
X115
D(-LGH)
A2(LGH)
E(-LGH)
B2(LGH)
K(-LGH)
C2(LGH)
B(-LGH)
A1(LGH)
A(-LGH)
B1(LGH)
F(-LGH)
C1(LGH)
X408
D
E
F
A
B
C
2374
L-BU
J421
B78G
Rear
Object
Sensor -
Left
Outer
B78E
Rear
Object
Sensor -
Left
Middle
B78F
Rear
Object
Sensor -
Right
Middle
B78H
Rear
Object
Sensor -
Right
Outer
J420
L O C
D E S C

Description and Operation

Object Detection Description and Operation (with rear camera UVC)

Rear Vision Camera System Operation

The rear vision camera system consists of a video camera located at the rear of the vehicle and the radio.

When the transmission is placed into REVERSE, a 12 volt signal is sent to the rear vision camera by the body control module (BCM). This signal indicates to the camera that the vehicle is in reverse and image display is requested. The rear vision camera receives ignition voltage and a constant ground to power the camera. Video signal + and video signal – circuits carry the video image from the rear vision camera to the radio. Additionally, the video signal circuits are shielded to prevent any interference which may lead to a loss of video signal resolution and a degraded video image. The shield is provided a ground path by the rear vision camera.

The following conditions may cause a degraded rear vision camera image:

- Ice, snow, or mud has built up on the rear vision camera
- Dark conditions
- Extreme light conditions, such as glare from the sun or the headlights of another vehicle
- Damage to the rear of the vehicle
- Extreme high temperatures or extreme temperature changes

If a malfunction is detected in the system, Service Rear Vision Camera may be displayed on the navigation radio as an indicator to the customer that a problem exists that requires service.

Object Detection Description and Operation (with rear park assist UD7)

The ultrasonic parking assist system is designed to identify and notify the driver of an object in the vehicles path when reversing at speeds of less than 8 km/h (5 MPH). The distance and location of the object is determined by 4 object sensors located in the rear bumper. The parking assist system will notify the driver using an audible beep signal through the radio rear speakers.

The parking assist system is made up of the following components:

- Parking assist control module
- Rear object alarm sensors

Parking Assist Control Module

The parking assist control module provides an 8 V reference and a low reference to the four object alarm sensors. The parking assist control module receives individual signals from each of the four sensors and determines the location and distance of an object based on these inputs. When an object is detected, the parking assist control module will send a data message via CAN-Bus to the radio requesting an audible alert.

Rear Object Alarm Sensors

The object alarm sensors are located in the rear bumper of the vehicle. The sensors are used to determine the distance between an object and the bumper. Each sensor emits an ultrasonic frequency which is reflected off any object located behind the vehicle. These reflections are received by the sensors. The time difference between the emission of the frequency and when the reflection is received is known as sensor echo time, it is used to determine the distance to the object. The sensors report this information to the parking assist control module.

Rear Parking Assist Operation

When the vehicle is first placed into reverse there will be one audible beep through the rear speakers, to indicate that the system is working. If rear speakers are inoperable no audible signals will occur.

When backing up at speed of less than 8 km/h (5 MPH), the system is constantly monitoring for object of interest located behind the vehicle. The rear parking assist system can detect objects greater than 7.6 cm (3 in) wide and 25.4 cm (10 in) tall. The system cannot detect objects below the bumper, underneath the vehicle. If an object is detected within 2.5 m (8 ft) there will be a audible beep notification out of both rear speakers based upon the distance to the object. As the vehicle gets closer to an object, the time between the beeps become shorter.

If the vehicle stops in a range zone the beeping will stop after 5 s. When the distance between the object and the vehicle changes, beeping will start again.

If the rear parking assist system detects a malfunction the single audible beep will not chime when put into reverse along with a DTC being stored. The object alarm module will send a serial data message to the instrument panel cluster to display the SERVICE PARK ASSIST message on the driver information center.

Parking Assist System Driver Information Center Messages

SERVICE PARK ASSIST

The driver information center displays SERVICE PARK ASSIST when the parking assist control module detects a malfunction in the rear parking assist system and the system is disabled. The driver information center also displays SERVICE PARK ASSIST when a loss of communication occurs with the parking assist control module.

PARK ASSIST OFF

The PARK ASSIST OFF message is displayed in the driver information center when the parking assist system is disabled due to conditions that disable or inhibit the system. The parking assist control module requests the driver information center display PARK ASSIST OFF when it detects that one of the following conditions:

- The rear parking assist system is manually disabled by the vehicle operator through the audio system personalization menu.
- The park brake is applied or not fully released.
- An object is attached to the rear of the vehicle, such as a trailer, bicycle rack, trailer hitch receiver, or tow bar. Also, an object extending beyond a lowered endgate will disable the system.
- The parking assist sensors are covered by snow, mud, dirt or ice.
- The vehicle bumper is damaged.
- Excessive paint thickness on a replacement parking assist sensor.
- The parking assist sensors are disrupted by vibrations, like those caused by a large nearby vehicle or from heavy equipment such as a jackhammer.

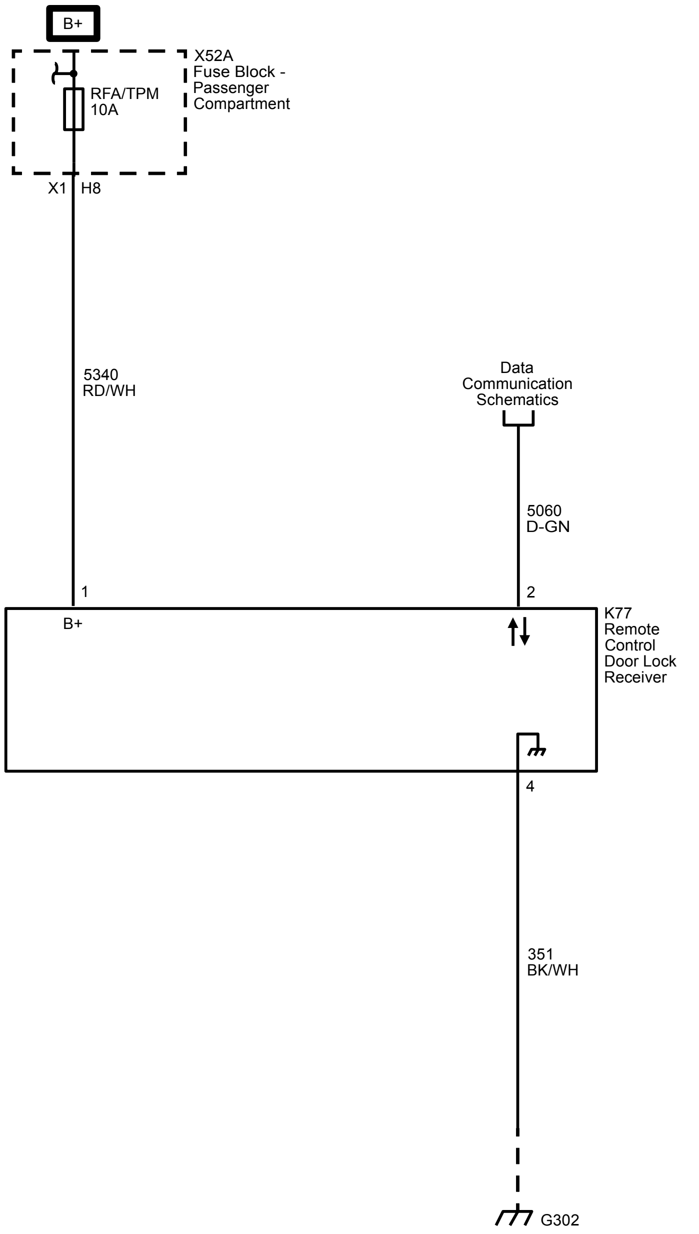
Safety and Security

Remote Functions

Schematic and Routing Diagrams

Remote Function Schematics

Keyless Entry


B+
X52A
Fuse Block -
Passenger
Compartment
RFA/TPM
10A
X1
H8
5340
RD/WH
Data
Communication
Schematics
5060
D-GN
1
2
B+
K77
Remote
Control
Door Lock
Receiver
4
351
BK/WH
G302

Description and Operation

Keyless Entry System Description and Operation

The keyless entry system is a vehicle entry device. The keyless entry system is used in conjunction with the body control module (BCM) to remotely activate certain vehicle features. Keyless entry will lock/unlock the doors when a corresponding button on the keyless entry transmitter is pressed. This is accomplished by the transmitter sending a radio frequency to the remote control door lock receiver (RCDLR). The RCDLR interprets the signal and activates the requested function via a serial data message to the BCM. A low transmitter or vehicle battery or radio frequency (RF) interference from aftermarket devices, such as 2-way radios, power inverters, computers, etc., may cause a system malfunction. High RF traffic areas may also cause interference that could lead to a malfunction. Keyless entry allows you to operate the following components:

- Door locks
- Cargo door unlock
- Vehicle locator/Panic alarm
- Illuminated entry lamps

The keyless entry system has the following components:

- Keyless entry transmitters
- BCM
- RCDLR

Keyless Entry Transmitters

The keyless entry transmitter are used to lock and unlock the vehicle doors from a distance of up to 65 feet (20 m) away. Up to 8 transmitters may be programmed to a single vehicle.

OnStar® Remote Link

A vehicle operator may have the ability to perform some of the keyless entry functions using applications on personal devices such as smart phones. Refer to CELL Link Error - Link target cell (cell ID 149754) is invalid for this publication..

Remote Control Door Lock Receiver (RCDLR)

The remote control door lock receiver (RCDLR) is a multifunction module that operates both the keyless entry system as well as the tire pressure monitoring (TPM) system. The RCDLR has an internal antenna that is used to receive radio frequency (RF) communications sent by the keyless entry transmitters. When an RF message is received from a keyless entry transmitter, the RCDLR interprets this signal and will request via serial data that the body control module (BCM) perform the specific function, i.e. door lock, door unlock, or vehicle locate. The RCDLR also receives RF signals from the TPM sensors located at each wheel.

Unlock Driver Door Only

Momentarily press the transmitter UNLOCK button in order to perform the following functions:

- Unlock only the driver door.
- Illuminate the interior lamps for a determined length of time, or until the ignition is turned ON.
- Flash the exterior lights, if enabled through personalization.

Unlock All Doors – Second Operation

Momentarily press the transmitter UNLOCK button a second time, within 5 seconds of the first press, to perform the following functions:

- Unlock the remaining doors.
- Unlock the cargo doors.

Cargo Door Unlock

Momentarily press the transmitter cargo door unlock button a second time, within 5 seconds of the first press, to perform the following function:

Unlock only the cargo doors.

Lock All Doors

Press the transmitter LOCK button to perform the following functions:

- Lock all vehicle doors.
- Immediately turn OFF the interior lamps.
- Flash the exterior lights, if enabled through personalization.
- Chirp the horn, if enabled through personalization.

Vehicle Locator/Panic Alarm

A single press of the panic button performs the following functions. Some functions may be dependent on personalization settings:

- Pulse the horn three times.
- Flash the exterior lamps three times.

A press and hold of the panic button performs the following functions:

- Illuminate the interior lamps.
- Pulse the horn and flash the exterior lamps for 30 second or until the following conditions occur:
  - The panic button is pressed.
  - The ignition switch is turned to the RUN position with a valid key.

Remote Vehicle Start (RVS) – if equipped

The remote vehicle start (RVS) function allows engine starting while not in the vehicle. It also allows the vehicle HVAC system and other vehicle systems to enable, providing a comfortable vehicle upon entry. RVS functions have an operating range of up to 195 feet, depending on conditions. The RVS sequence begins by pressing and releasing the lock button and then pressing and holding the RVS buttons on the keyless entry transmitter. The turn signal lamps will illuminate to indicate the vehicle has received the remote start request. Each time an RVS is performed, the vehicle doors are locked, however they may then be unlocked/locked with the transmitter or vehicle key at any time. Once activated, the engine is allowed to run for 10 minutes. The RVS time may be extended by an additional 10 minute by again pressing and releasing the lock button and then pressing and holding the RVS buttons on the transmitter. This feature is called a RVS continue and allows a maximum of 20 minutes of engine running. If the RVS continue is performed at 7 minutes into the initial 10 minute time-out, a total of 17 minutes of engine running would occur. The RVS event may be suspended at any time by pressing only the RVS button on the transmitter or by entering the vehicle and turning ON the hazard lamps.

In between ignition cycles, only two RVS events may occur or be attempted. Once two events or attempts have been made, future RVS events will be suspended until the vehicle is started using the ignition.

Enable/Disable RVS

Using the driver information center (DIC), RVS may be enabled or disabled as a part of vehicle personalization. Refer to the vehicle owners manual for more information.

Hood Ajar Switch

The hood switch provides status of the hood to the BCM for RVS purposes. The switch is integrated into the hood latch assembly. The hood ajar switch provides 2 separate inputs to the BCM. These separate inputs allow the BCM to actively monitor for a hood ajar switch fault.

RVS Circuit Description

The RCDLR receives a signal from the keyless entry transmitter indicating a RVS request. A message is then sent to the BCM which determines if a crank request message will be sent to the ECM to allow engine starting. To determine if conditions are correct for an RVS event, the BCM will ensure the following conditions are met:

- All vehicle doors are closed
- A valid hood ajar switch closed signal is present
- The doors are locked
- The hazard switch is OFF
- The vehicle power mode is correct
- No content theft deterrent (CTD) alarm triggers are present
- The vehicle is not in valet mode (if equipped)

When the BCM determines all conditions meet those required for an RVS event, a message is sent via serial data to the ECM. The ECM relies on the RVS message from BCM to enable RVS when the crank request signal is received. If the ECM does not receive a valid RVS message, it will not attempt to start the engine. While the ECM is in RVS mode it will suspend engine operation if any of the following additional conditions occur:

- Vehicle speed is greater than 0
- Transmission is not in PARK
- Excessive engine coolant temperature
- Low oil pressure
- The malfunction indicator lamp (MIL) is commanded ON
- Engine crank time is greater than 30 seconds
- Excessive engine speed
- Accelerator pedal position too high
- Remote start timer equals 0
- Immobilizer system indicates tamper

Keyless Entry Personalization

Vehicle lock/unlock functions and remote vehicle start (RVS) settings may be personalized. For functional descriptions and personalization instructions, refer to the vehicle owners manual.

Rolling Code

The Keyless Entry System uses rolling code technology. Rolling code technology prevents anyone from recording the message sent from the transmitter and using the message in order to gain entry to the vehicle. The term “rolling code” refers to the way that the Keyless Entry System sends and receives the signals. The transmitter sends the signal in a different order each time. The transmitter and the remote control door lock receiver (RCDLR) are synchronized to the appropriate order. If a programmed transmitter sends a signal that is not in the order that the RCDLR expects, then the transmitter is out of synchronization. This occurs after 256 presses of any transmitter button when it is out of range of the vehicle.

Automatic Synchronization

The keyless entry transmitters do not require a manual synchronization procedure. If needed, the transmitters automatically re-synchronize when any button on the transmitter is pressed within range of the vehicle. The transmitter will operate normally after the automatic synchronization.

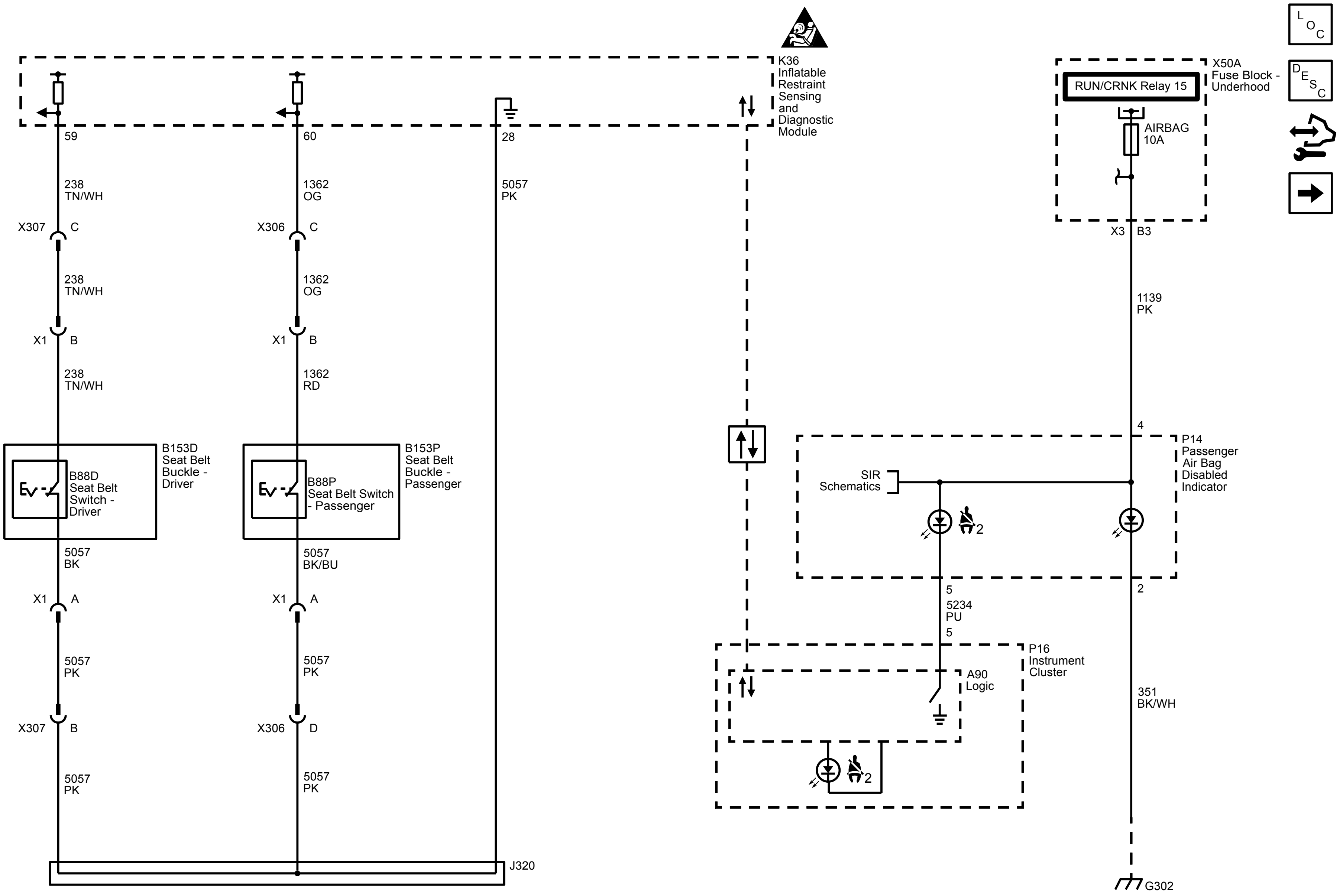
Safety and Security

Seat Belts

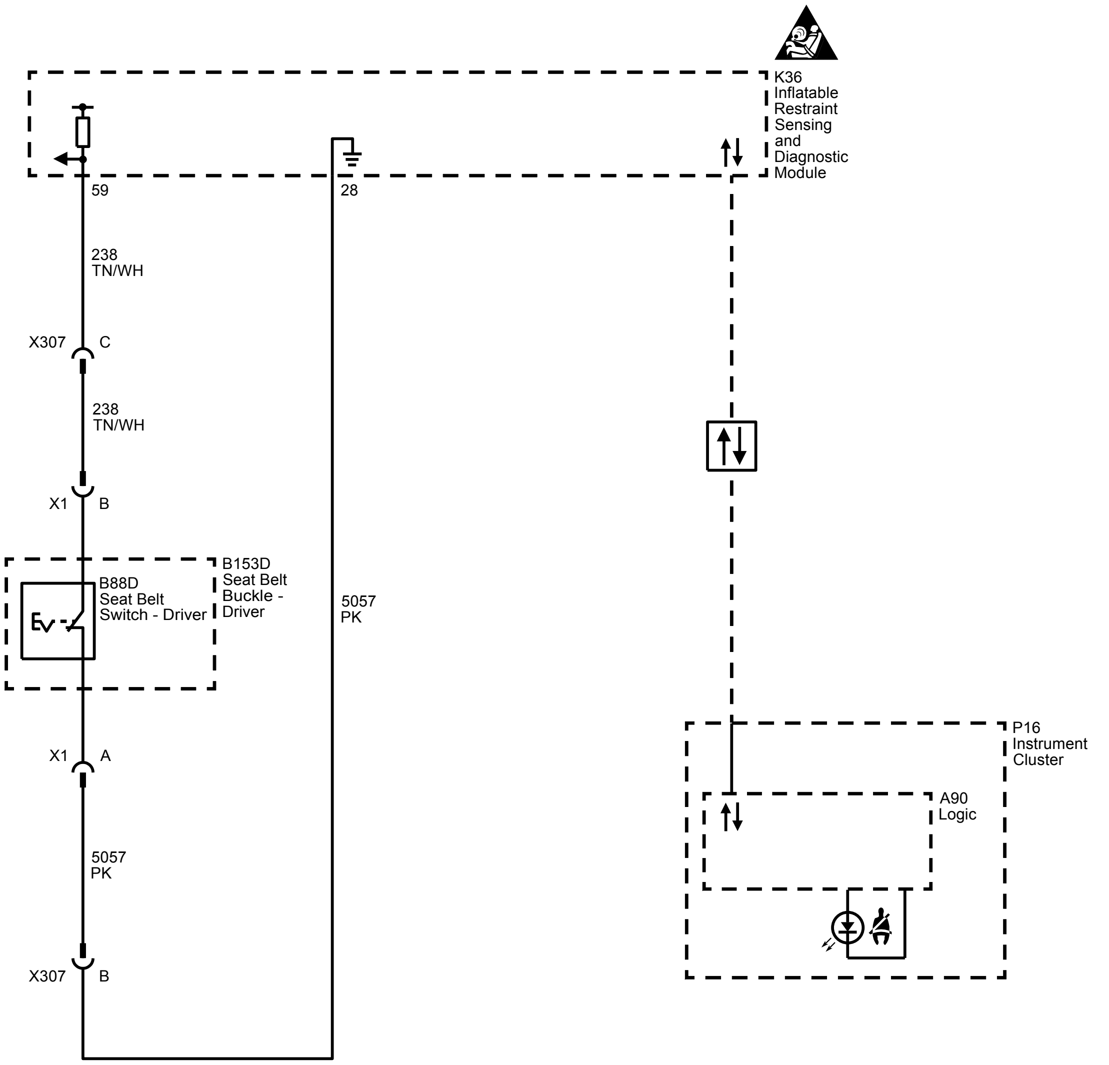
Schematic and Routing Diagrams

Seat Belt Schematics

Seat Belt (without C99 without YF7)


K36
Inflatable
Restraint
Sensing
and
Diagnostic
Module
59
60
28
238
TN/WH
1362
OG
5057
PK
X307
C
X306
C
238
TN/WH
1362
OG
X1
B
X1
B
238
TN/WH
1362
RD
B153D
Seat Belt
Buckle -
Driver
B88D
Seat Belt
Switch -
Driver
B153P
Seat Belt
Buckle -
Passenger
B88P
Seat Belt Switch
- Passenger
5057
BK
5057
BK/BU
X1
A
X1
A
5057
PK
5057
PK
X307
B
X306
D
5057
PK
5057
PK
J320
X50A
Fuse Block -
Underhood
RUN/CRNK Relay 15
AIRBAG
10A
X3
B3
1139
PK
4
P14
Passenger
Air Bag
Disabled
Indicator
SIR
Schematics
2
5
2
5234
PU
5
P16
Instrument
Cluster
A90
Logic
2
351
BK/WH
G302
L O C
D E S C

Seat Belt (C99)


K36
Inflatable
Restraint
Sensing
and
Diagnostic
Module
59
28
238
TN/WH
X307
C
238
TN/WH
X1
B
B153D
Seat Belt
Buckle -
Driver
B88D
Seat Belt
Switch - Driver
5057
PK
X1
A
5057
PK
X307
B
P16
Instrument
Cluster
A90
Logic

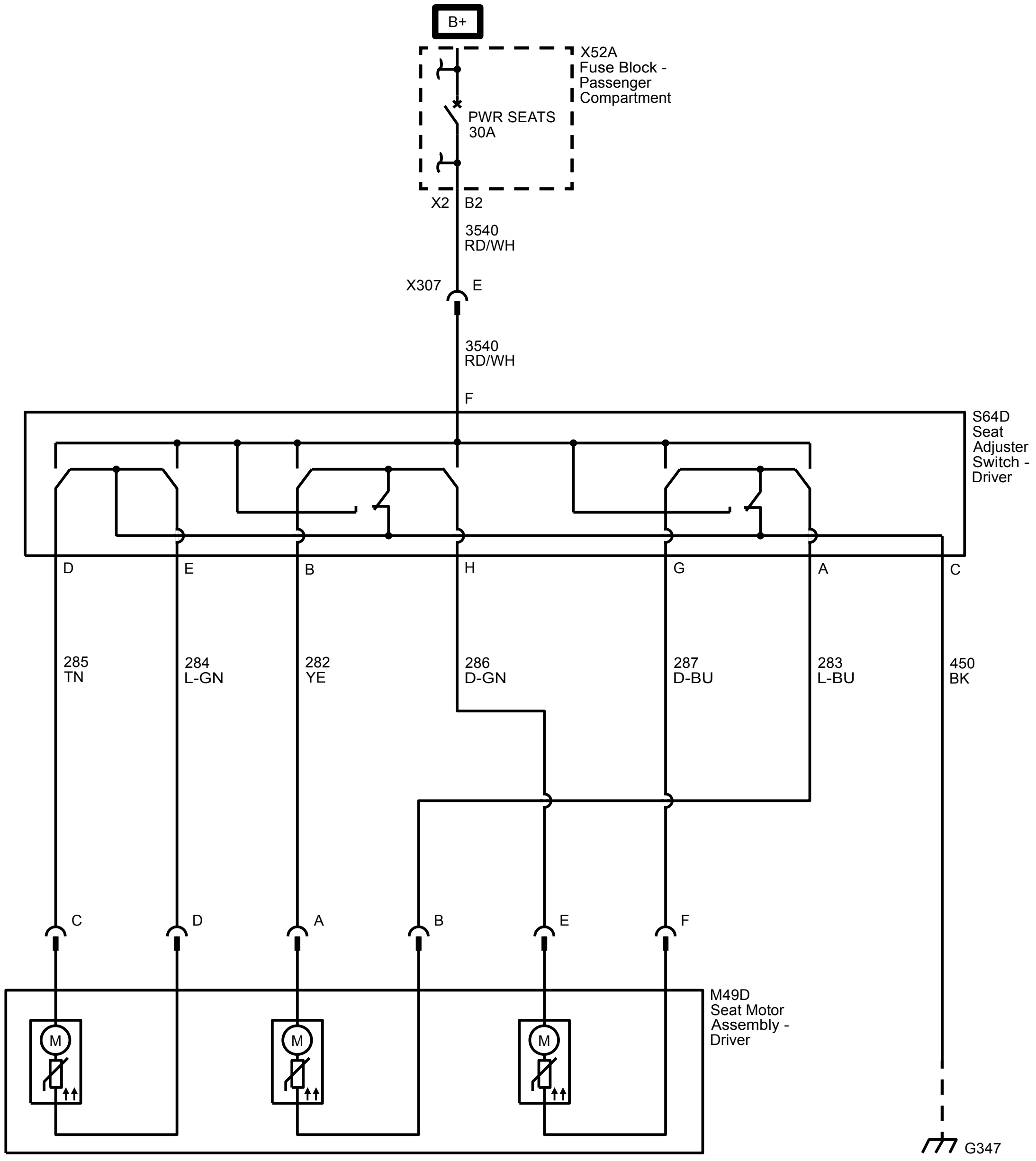
Seats

Power Seats

Schematic and Routing Diagrams

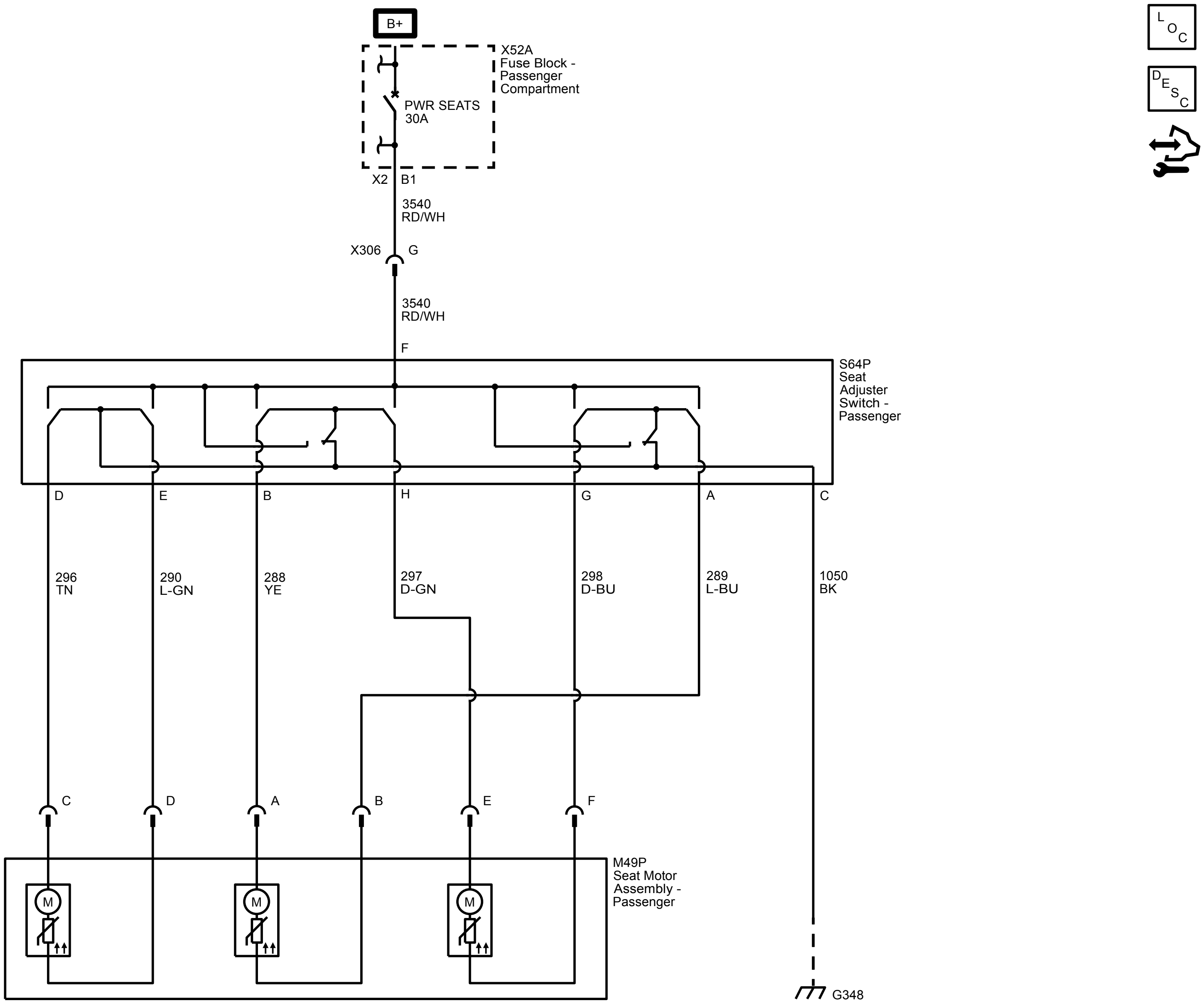
Driver Seat Schematics

Driver Seat


B+
X52A
Fuse Block -
Passenger
Compartment
PWR SEATS
30A
X2
B2
3540
RD/WH
X307
E
3540
RD/WH
F
S64D
Seat
Adjuster
Switch -
Driver
D
E
B
H
G
A
C
285
TN
284
L-GN
282
YE
286
D-GN
287
D-BU
283
L-BU
450
BK
C
D
A
B
E
F
M49D
Seat Motor
Assembly -
Driver
M
M
M
G347

Passenger Seat Schematics

Passenger Seat


B+
X52A
Fuse Block -
Passenger
Compartment
PWR SEATS
30A
X2
B1
3540
RD/WH
X306
G
3540
RD/WH
F
S64P
Seat
Adjuster
Switch -
Passenger
D
E
B
H
G
A
C
296
TN
290
L-GN
288
YE
297
D-GN
298
D-BU
289
L-BU
1050
BK
C
D
A
B
E
F
M
M
M
M49P
Seat Motor
Assembly -
Passenger
G348
LOC
DESC

Description and Operation

Power Seats System Description and Operation

Power Seat System Components

The power seat system for the driver and passenger consists of the following components:

- Power Seat Switch
- Seat Horizontal Motor
- Seat Front Vertical Motor
- Seat Rear Vertical Motor

Power Seat System Operation

This seat contains three motors for positioning. They are the Horizontal motor, Rear Vertical motor, and a Front Vertical motor The Horizontal motor moves the seat forward and rearward. The Front Vertical motor raises and lowers the front of the seat and the Rear Vertical motor raises and lowers the rear of the seat. Power is supplied to the motors through a battery positive voltage supply circuit at the Power Seat Switch. A ground circuit is supplied to the motors through the Power Seat Switch also.

The direction the motor operates depends on the polarity applied to the motor control circuits. Each time direction is changed using the power seat switch, the power and ground paths are reversed at the control circuits causing the motor to position the seat in the desired direction.

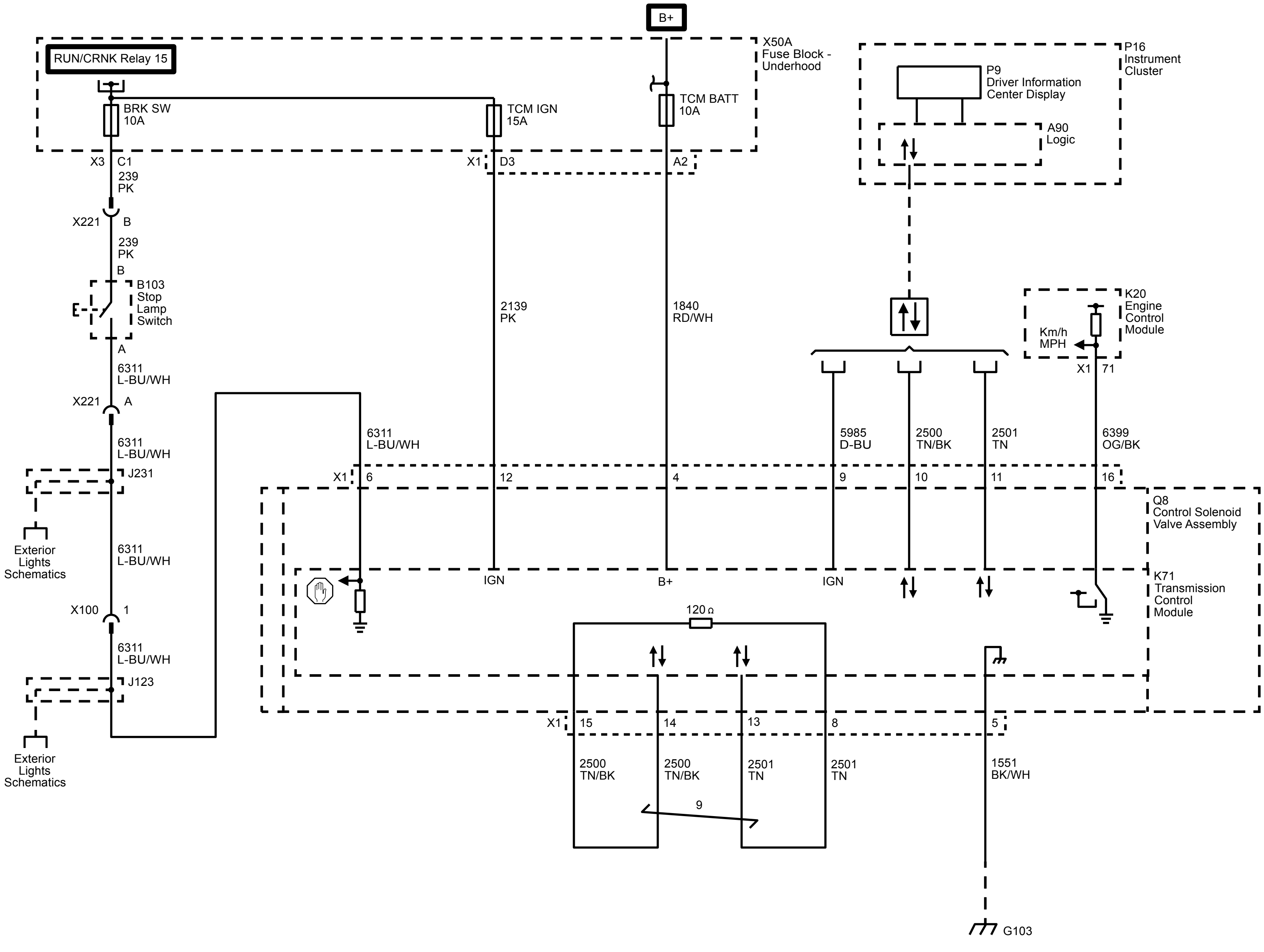
Transmission

Automatic Transmission - 6L90 (MYD)

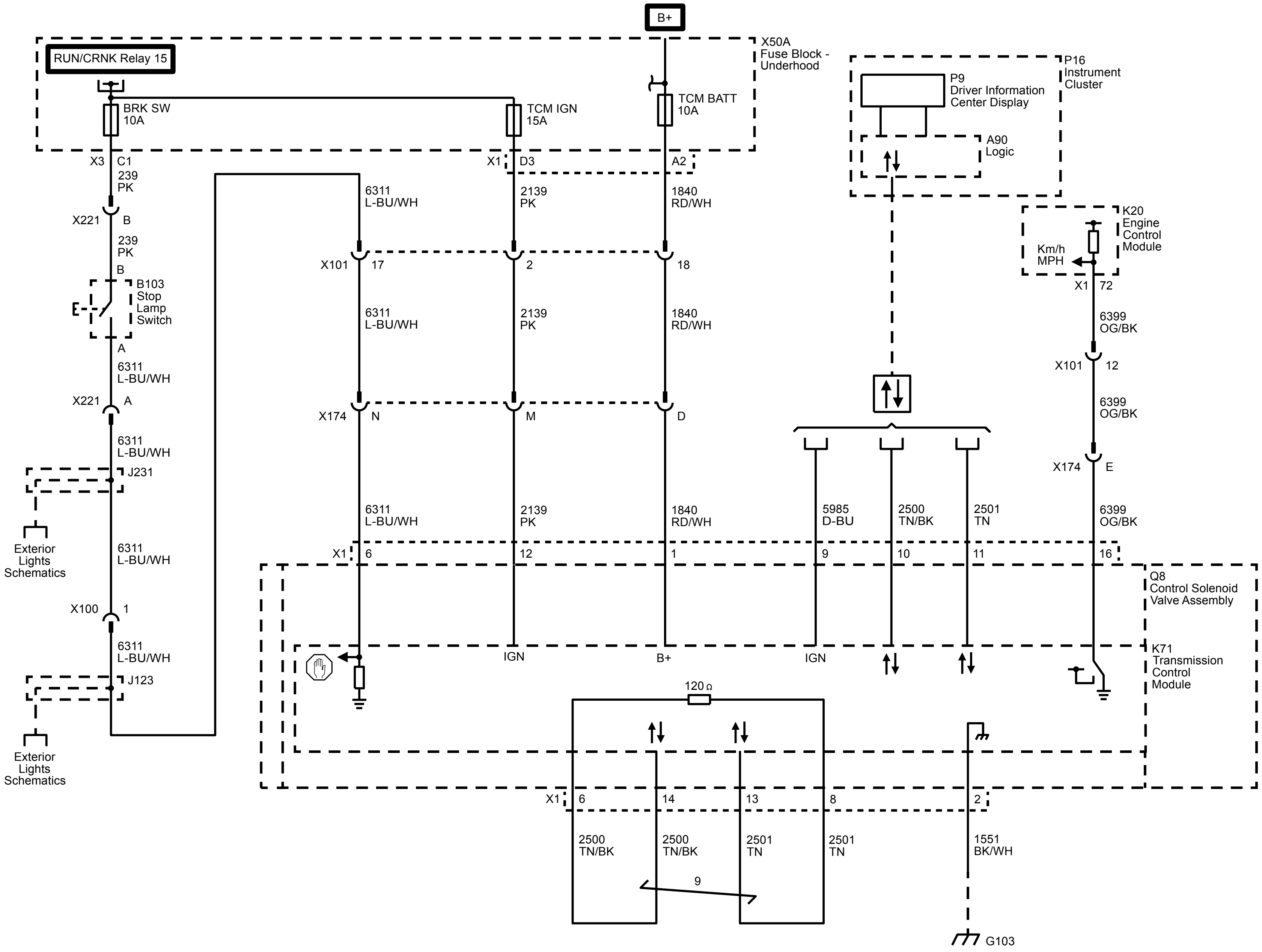
Schematic and Routing Diagrams

Automatic Transmission Controls Schematics

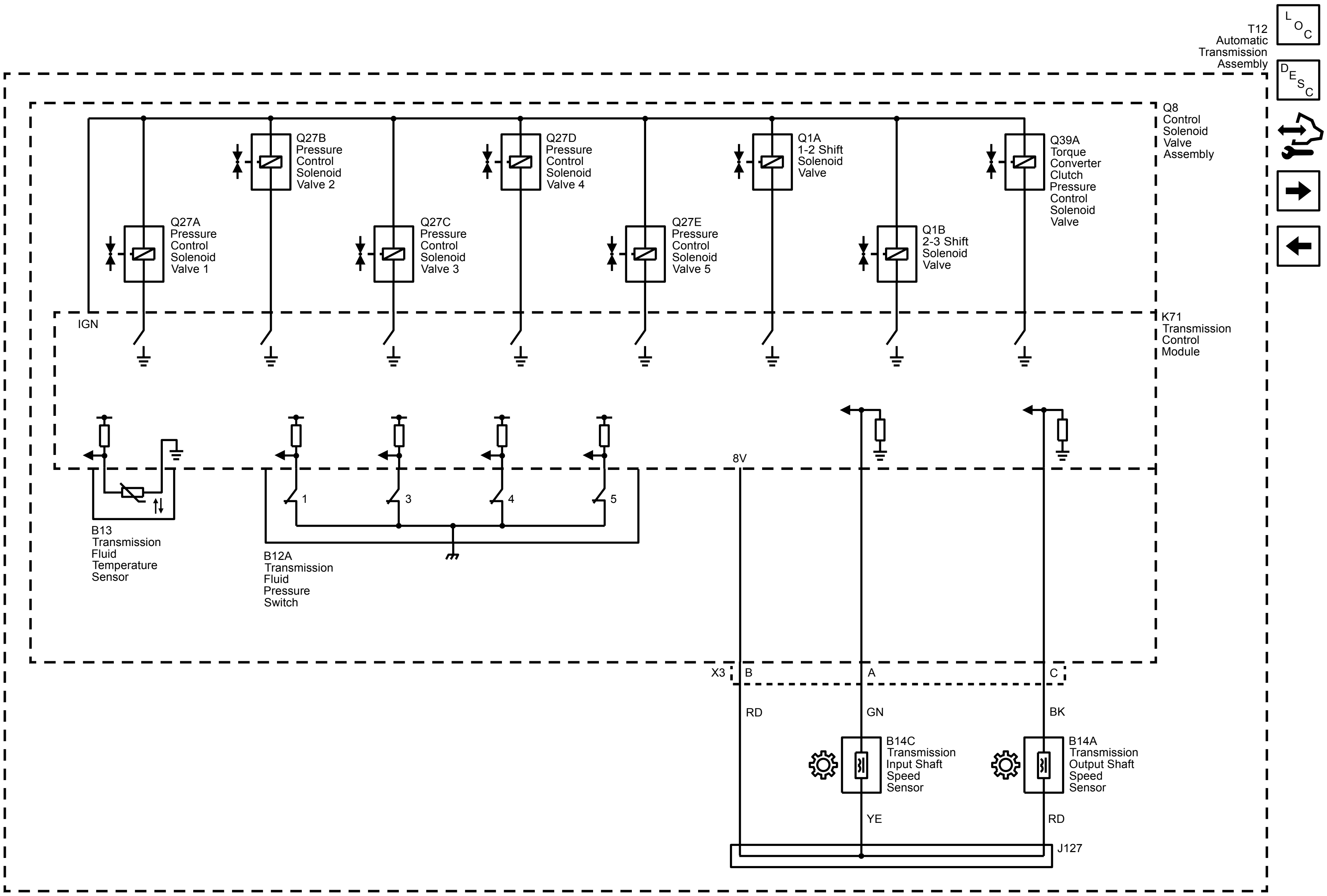
Module Power, Ground, Data Communication, MIL, and Stop Lamp Signal (L20 or L96)


B+
RUN/CRNK Relay 15
X50A
Fuse Block - Underhood
BRK SW
10A
TCM IGN
15A
TCM BATT
10A
X3
C1
X1
D3
A2
239
PK
X221
B
239
PK
B
B103
Stop
Lamp
Switch
A
6311
L-BU/WH
X221
A
6311
L-BU/WH
J231
Exterior
Lights
Schematics
6311
L-BU/WH
X100
1
6311
L-BU/WH
J123
Exterior
Lights
Schematics
2139
PK
1840
RD/WH
P16
Instrument
Cluster
P9
Driver Information
Center Display
A90
Logic
K20
Engine
Control
Module
Km/h
MPH
X1
71
6311
L-BU/WH
5985
D-BU
2500
TN/BK
2501
TN
6399
OG/BK
X1
6
12
4
9
10
11
16
Q8
Control Solenoid
Valve Assembly
T12
Automatic
Transmission
Assembly
IGN
B+
IGN
K71
Transmission
Control
Module
120 Ω
X1
15
14
13
8
5
2500
TN/BK
2500
TN/BK
2501
TN
2501
TN
9
1551
BK/WH
G103

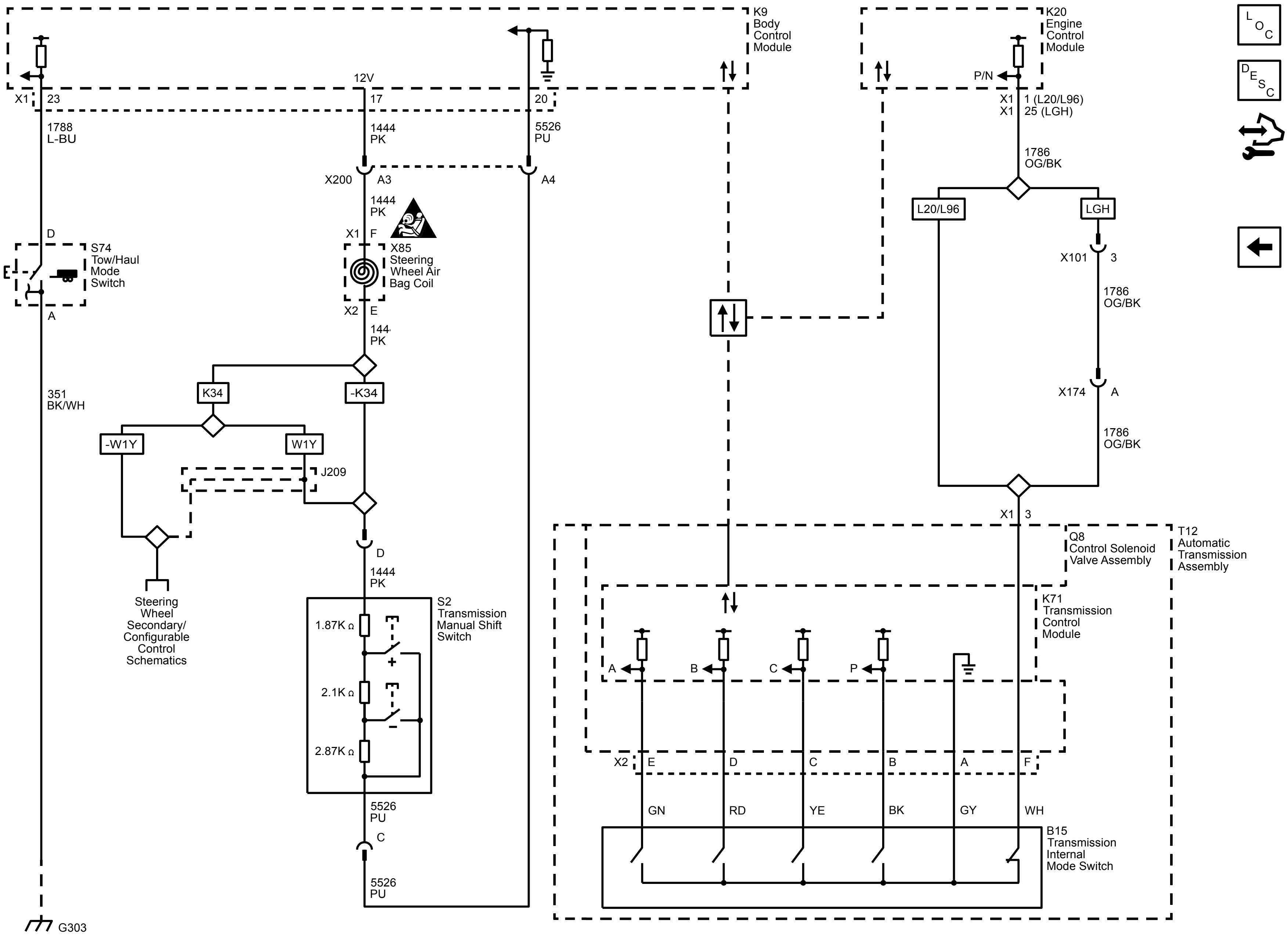
Module Power, Ground, Data Communication, MIL, and Stop Lamp Signal (Diesel)


B+
X50A
Fuse Block - Underhood
RUN/CRNK Relay 15
BRK SW
10A
TCM IGN
15A
TCM BATT
10A
X3
C1
X1
D3
A2
239
PK
6311
L-BU/WH
2139
PK
1840
RD/WH
X221
B
239
PK
B
B103
Stop
Lamp
Switch
A
6311
L-BU/WH
X101
17
2
18
6311
L-BU/WH
2139
PK
1840
RD/WH
X221
A
X174
N
M
D
6311
L-BU/WH
J231
Exterior
Lights
Schematics
6311
L-BU/WH
6311
L-BU/WH
2139
PK
1840
RD/WH
X100
1
6311
L-BU/WH
J123
Exterior
Lights
Schematics
P9
Driver Information
Center Display
P16
Instrument
Cluster
A90
Logic
K20
Engine
Control
Module
Km/h
MPH
X1
72
6399
OG/BK
X101
12
6399
OG/BK
X174
E
5985
D-BU
2500
TN/BK
2501
TN
6399
OG/BK
X1
6
12
1
9
10
11
16
Q8
Control Solenoid
Valve Assembly
T12
Automatic
Transmission
Assembly
IGN
B+
IGN
K71
Transmission
Control
Module
120 Ω
X1
6
14
13
8
2
2500
TN/BK
2500
TN/BK
2501
TN
2501
TN
1551
BK/WH
9
G103

ISS, OSS, TFP, and TFT Sensors, Pressure and Shift Controls


T12
Automatic
Transmission
Assembly
L O C
D E S C
Q8
Control
Solenoid
Valve
Assembly
Q27B
Pressure
Control
Solenoid
Valve 2
Q27D
Pressure
Control
Solenoid
Valve 4
Q1A
1-2 Shift
Solenoid
Valve
Q39A
Torque
Converter
Clutch
Pressure
Control
Solenoid
Valve
Q27A
Pressure
Control
Solenoid
Valve 1
Q27C
Pressure
Control
Solenoid
Valve 3
Q27E
Pressure
Control
Solenoid
Valve 5
Q1B
2-3 Shift
Solenoid
Valve
IGN
K71
Transmission
Control
Module
8V
1
3
4
5
B13
Transmission
Fluid
Temperature
Sensor
B12A
Transmission
Fluid
Pressure
Switch
X3
B
A
C
RD
GN
BK
B14C
Transmission
Input Shaft
Speed
Sensor
B14A
Transmission
Output Shaft
Speed
Sensor
YE
RD
J127

IMS, Tow/Haul, and Tap Up/Tap Down Switches


K9 Body Control Module
K20 Engine Control Module
12V
X1 23
17
20
1788 L-BU
1444 PK
5526 PU
X200 A3
A4
P/N
X1 1 (L20/L96)
X1 25 (LGH)
1786 OG/BK
L20/L96
LGH
X101 3
1444 PK
X1 F
D
S74 Tow/Haul Mode Switch
A
X85 Steering Wheel Air Bag Coil
X2 E
144 PK
K34
-K34
-W1Y
W1Y
J209
351 BK/WH
X174 A
1786 OG/BK
1786 OG/BK
X1 3
Q8 Control Solenoid Valve Assembly
T12 Automatic Transmission Assembly
D
1444 PK
S2 Transmission Manual Shift Switch
1.87K Ω
2.1K Ω
2.87K Ω
+
−
Steering Wheel Secondary/ Configurable Control Schematics
K71 Transmission Control Module
A
B
C
P
X2 E
D
C
B
A
F
GN
RD
YE
BK
GY
WH
B15 Transmission Internal Mode Switch
5526 PU
C
5526 PU
G303
LOC
DESC

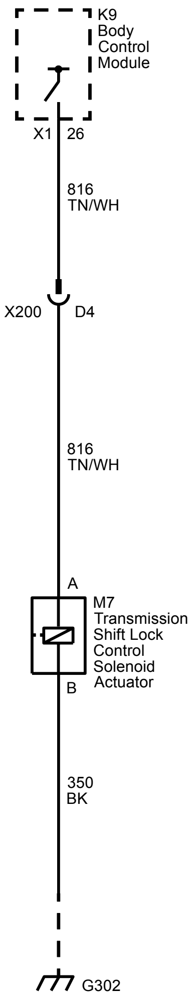
Transmission

Shift Lock Control

Schematic and Routing Diagrams

Shift Lock Control Schematics

Shift Lock Control


K9
Body
Control
Module
X1
26
816
TN/WH
X200
D4
816
TN/WH
A
M7
Transmission
Shift Lock
Control
Solenoid
Actuator
B
350
BK
G302

Description and Operation

Automatic Transmission Shift Lock Control Description and Operation

The automatic transmission shift lock control system is a safety device that prevents an inadvertent shift out of PARK when the engine is running. The driver must press the brake pedal before moving the shift lever out of the PARK position. The system consists of the following components:

- The automatic transmission shift lock solenoid (serviced as the automatic transmission shift lock actuator), as well as the body control module (BCM) and the engine control module (ECM). The shift lock solenoid is located within the floor shift control assembly with vehicles equipped with floor shift.
- The BCM controls the voltage to the shift lock control solenoid through the shift lock control solenoid controlled voltage circuit. The following conditions must be met before the BCM will remove voltage from the shift lock solenoid:
  - The ignition is in the ON position.
  - The engine control module (ECM) sends an input via GMLAN serial data to the BCM indicating the transmission is in the PARK position.
  - The BCM determines the brake pedal is applied according the brake pedal position.

Since the shift lock control solenoid is permanently grounded, the BCM supplies voltage to the automatic transmission shift lock control solenoid, mechanically locking the shift lever in the PARK position as the solenoid energizes. When the brake pedal is applied, the BCM turns the control voltage output of the shift lock control solenoid OFF, de-energizing the shift lock control solenoid. The de-energized solenoid releases the mechanical lock allowing the driver to move the shift lever out of the PARK position. When the transmission is out of the PARK position, the shift lock control solenoid remains de-energized.

During remote start operation, the BCM will energize the shift lock control circuit, locking the shift lever in the PARK position.